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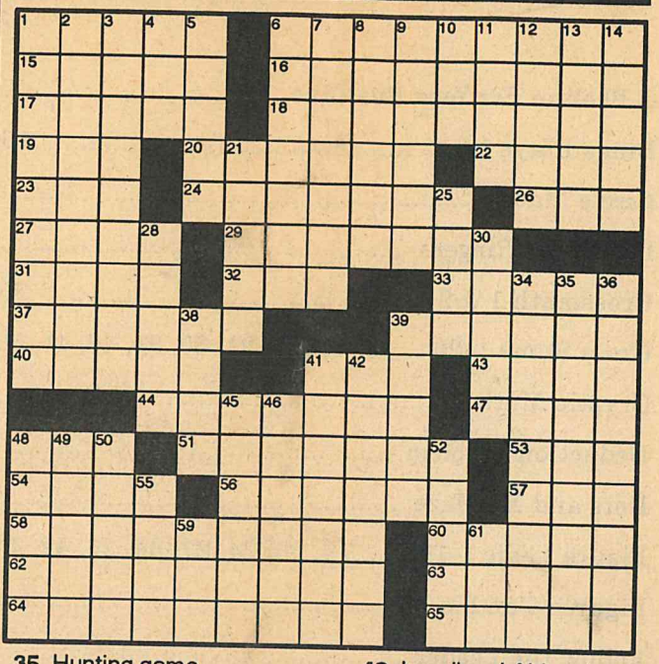

ACROSS

1 Locale in *The Odyssey*
6 Spectral
15 Guarantees
16 Membership
17 Transplant
18 Inexact numbers
19 Indonesian islands
20 Shortstop Kevin
22 Drive away
23 Inn type
24 Dry areas
26 Wee
27 At leisure
29 Uncovers
31 Roulette bet
32 *From Here to Eternity* extras
33 Inverness features
37 Pack
39 Ali, e.g.
40 Vaquero's gear
41 Angel's favorite letters
43 *Family* mom
44 Ragtime dance
47 Beast of *Bürde*
48 Word before jump or lift
51 It may be underfoot
53 Lincoln was one
54 Tennis name
56 Mexican resort
57 Center of comparisons
58 Detached
60 Squash tool
62 Keyboard technique
63 Clan symbol
64 Cosmetic ingredients
65 Bee's leftovers

DOWN

1 Mountaineer's ring
2 Finished
3 __ *de Venezuela*
4 Back
5 Spanish 101 word
6 One way to get a lift
7 Video-display lines
8 Corporate trainee
9 Goes around
10 Melt-resistant product
11 Way over yonder
12 Puente and Jackson
13 Appendix neighbor
14 *Pelota* catcher
21 "I can do it!"
25 *Star Trek VI* captain
28 Calliope's relative
30 Ad-hoc force
34 Elegant ones
35 Hunting game
36 Colts, for instance
38 Asian capital
39 Finish the dirty work
41 Dried-bouquet plant
42 Bowling-tourney requests
45 Comm. Perry's HQ
46 *Lucia di Lammermoor* highlight
48 Ismail and Abbas I, for two
49 Ruined
50 Senseless
52 *Mary Hartman, Mary Hartman* role
55 Cheer start
59 Blocks of fame
61 Debt offering

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Cover illustration by Hiro Kimura

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LETTER FROM THE EDITORS

Welcome to *Math Puzzles and Logic Problems #12*.

To us here at Dell, it seems like just yesterday (or at least last month) that we were planning the first issue of *Math Puzzles and Logic Problems*. Now, you have the twelfth issue in your hands. An even dozen *Math and Logics*. And you have even more to look forward to — the "baker's dozen" issue will follow this one in three months' time, and another will follow that one three months later, and so on.

Way back when, there were many, many questions to answer: Would 10 Logic Problems be enough? (No.) Is 15 a better number? (Yes.) Should the amount of Logic Problems be allowed to fluctuate? (No.)

What about number puzzles? We went a little bonkers trying to figure out a good mix of math puzzles. Ten Figure Logics seemed appropriate, but do all 10 have to be straight Figure Logics? (No, we also use diagramlesses, cube shapes, and story Figure Logics.) What about Cross Sums: Solvers have been clamoring for more and more for years, but 20 is an awful lot, no? (We haven't heard a single complaint.) Same thing for Word Arithmetic. Some people thought 45 would be way too many, some thought too few. (It's been 45 all along, and no one has written to ask for a change.)

So those were to be the standards. We all finally agreed that 15 Logic Problems, 10 Figure Logics, 20 Cross Sums, and 45 Word Arithmetics would be the basis of *Math Puzzles and Logic Problems*. Now, what else should be included?

What about Deduction Problems: Could we have 15 Logic Problems and still include Deduction Problems? (You bet.) With all these Logic and Deduction Problems, should we include more logic-based puzzles? (We experimented with the first few and then let solvers have their say. Letters came in asking for more, so there are more.) In just about every issue of Math and Logic, you'll find Bingo Plays, Crossmath, Number Place, and Magic Number Square, but how many of each depends upon what the mail says and the preferences of the editor of each issue.

Then, there are those puzzles that don't appear in every issue: What should they be? (Mazes, Cryptic Math, Minute Math, Griddigits, and Circle Math, plus whatever new might come in). With an evolving magazine, there is also the liberty of including new, never-before-seen puzzles — Trigons, for example, made its first appearance two issues ago and received such a resounding welcome that it's back again.

Of course, there are many more puzzles included in each issue of *Math Puzzles and Logic Problems*, again depending on editorial choice and what solvers are asking for. So your letters really do matter. Let us know what puzzles you'd like to see more of, those you like, dislike, or if you'd rather, just offer an opinion. Write or fax:

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The Editors

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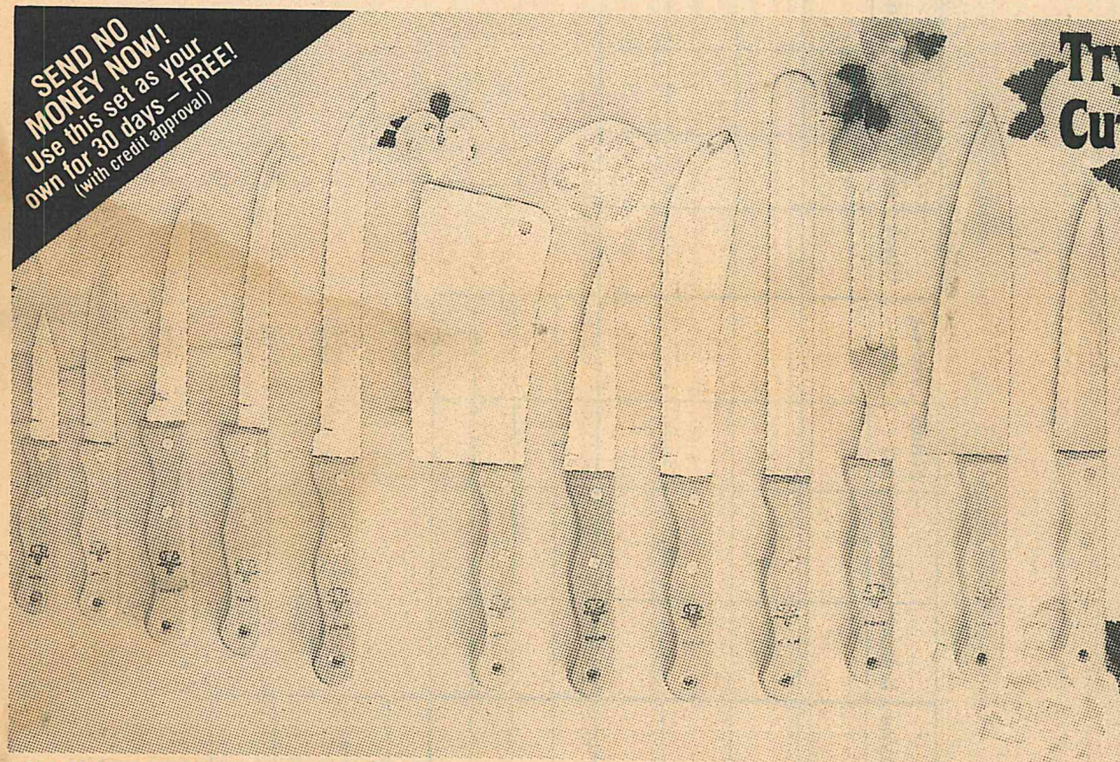

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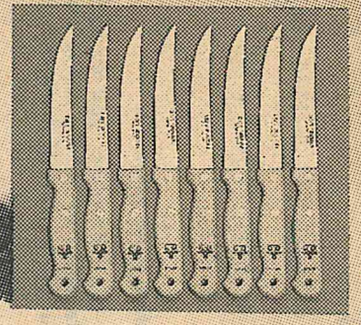

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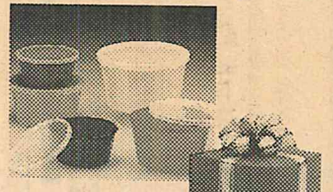

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LOGIC PROBLEM

1. THE CRANES' TRAIN

by Frances Hendon

Oh, those crazy Cranes are really into rhyming. Jane and Lane Crane even rhymed their kids' names. Their children, Blaine, Dwayne, Elaine, and Wayne, all have the same favorite toy — a train! The train is in four parts; each part was a gift to a different child for a different reason. From the following clues, can you use your brain to determine each child's train part (one was a boxcar) and color (one was blue), along with the reason the child received the gift?

1. One child's Christmas wish was answered with the caboose which was stained red.
2. Dwayne's birthday gift wasn't black or the green coach car.
3. Elaine, who was rewarded for baby-sitting, didn't get the dining car or the black train component.
4. Blaine's gift, which wasn't green, was not for raking the leaves on the lawn all fall.

Solution is on page 59.

If you care to use the chart below in solving this Logic Problem, you do so by entering all information obtained from the clues using, perhaps, an X to indicate a definite "no" and a dot to show a definite "yes." Remember: Once you enter a definite "yes" (dot), place a "no" (X) in all the rest of the boxes in each row and column that contains the dot.

	Blaine	Dwayne	Elaine	Wayne	boxcar	caboose	coach car	dining car	black	blue	green	red
baby-sitting												
birthday gift												
Christmas present												
raking leaves												
black												
blue												
green												
red												
boxcar												
caboose												
coach car												
dining car												

LOGIC PROBLEM

2. THE GREAT BLIZZARD OF '93

by Varda Reisner

It was the weekend of the Great Blizzard of '93, and the four families who live on Snowy Valley Lane were discovering just how appropriately their street was named — nearly two feet of snow had fallen! The Snowy Valley Lane residents, good neighbors that they are, pooled their resources to get everyone's driveways and sidewalks shoveled. Then they went to work on the street. When that was finally cleared, the families were too exhausted to go to the grocery store. They pooled their resources once more and came up with a potluck dinner; each family contributed one item from whatever was on hand. From the following clues, can you determine each family's contribution (one provided beef stew), number of children (1, 2, 3, or 4), and house number (102, 102, 103, or 104)?

1. The Chilton family has at least two more children than the family that lives at #102 (that did not provide the delicious baked apples for dessert).

2. The Plough family lives at an odd-numbered house with a driveway that is both steep and very long. Luckily, they have an electric snowblower that the neighbors took turns using.

3. The White family, that did not provide the hot-cocoa surprise, has more children than the family that contributed the lentil soup to the potluck dinner.

4. The Burroughs family has two children more than the family that lives at #103, that has lived in the neighborhood longer than any of the other families.

5. The hot-cocoa surprise was not provided by the family at #104 (that does not have four children).

Solution is on page 59.

See the opposite page for instructions on how to use standard charts.

	baked apples	beef stew	hot cocoa	lentil soup	101	102	103	104	1	2	3	4
Burroughs												
Chilton												
Plough												
White												
1												
2												
3												
4												
101												
102												
103												
104												

HOW WELL DO YOU FOLLOW DIRECTIONS?

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If you follow the directions given below carefully, you will change MYSTERY WRITER into the name of a well-known author. Be sure to work carefully, in order, step by step, for this puzzle is tricky. We have provided space for solving and have started you off by printing MYSTERYWRITER, the direction given in step 1. See if you can solve this puzzle correctly on the first try.

Solution is on page 63.

1. Print the words MYSTERY WRITER. Omit the space between the two words.	1. MYSTERYWRITER
2. Remove the 2nd and 6th consonants from the left; replace them with H's.	2. _____
3. Move the 3rd consonant from the left so that it becomes the 4th letter from the right.	3. _____
4. Remove the 4th consonant from the left and the 1st consonant from the right; replace them with C and I respectively.	4. _____
5. Remove the 1st vowel from the left and replace it with a G.	5. _____
6. Exchange the positions of the 1st and 4th consonants from the left.	6. _____
7. Insert an A after each of the first three consonants.	7. _____
8. Move the 2nd consonant from the left so it becomes the 5th letter from the left.	8. _____
9. Reverse the order of the first 2 letters at the left.	9. _____
10. Remove the 4th consonant from the left and the 4th consonant from the right.	10. _____
11. Reverse the order of the 1st and 2nd vowels from the right.	11. _____

Who's the author?

_____

A BEELINE FOR YOUR BUS LINE

The bus stop that you use every morning is not only on the same street on which you live, but also on the same side of the street. Nevertheless, when you leave your home in the morning, you cross the street diagonally to get to the other side.

Having once crossed the street, you cross it again diagonally to reach your bus stop. In spite of crossing the same street twice, you have actually used the shortest possible way to get to the bus stop.

How can you explain such a seemingly impossible beeline to the bus line?

Answer is on page 58.

WORD ARITHMETIC

These are long-division problems in which letters are substituted for numbers. Solve the problem; determine the number value of each letter; and, when the letters in each one have been arranged in order from 0 to 9, they will spell out a word or words.

Solutions are on page 63.

1.

0 1 2 3 4 5 6 7 8 9

```
          HERO
REAR | NEAREST
       REAR
       ETTTE
       HOWRO
        WOEAS
        WHTTN
         CERRT
         ENHOA
          CSEE
```

2.

0 1 2 3 4 5 6 7 8 9

```
          OLEO
ROE | GREENER
      GEFE
       LEFN
        ROE
        EIOE
        VVNN
         OYNR
         GEFE
          NNL
```

3.

0 1 2 3 4 5 6 7 8 9

```
          INN
TALC | INSTANT
       TALC
       NNENN
       ITCTN
        NAGST
        ITCTN
         ACIO
```

4.

0 1 2 3 4 5 6 7 8 9

```
          APT
TAPE | HAPPEN
       TAPE
       TWWNE
       NLEET
        ANYMN
         PYPA
          NPYA
```

5.

0 1 2 3 4 5 6 7 8 9

```
          HIKE
THUS | CHICKEN
       CNIC
        TIIKE
        NKSBT
         NNHTN
          SECU
          NKEB
```

6.

0 1 2 3 4 5 6 7 8 9

```
          ILE
COO | REPAID
      RARL
       AODI
       ALII
        LAPD
        ADEL
         AHH
```

7.

0 1 2 3 4 5 6 7 8 9

```
          OAR
NEAR | ORANGES
       TNOIE
        AOSNE
        RIGBO
         RGOAS
         OINON
          ERTT
```

8.

0 1 2 3 4 5 6 7 8 9

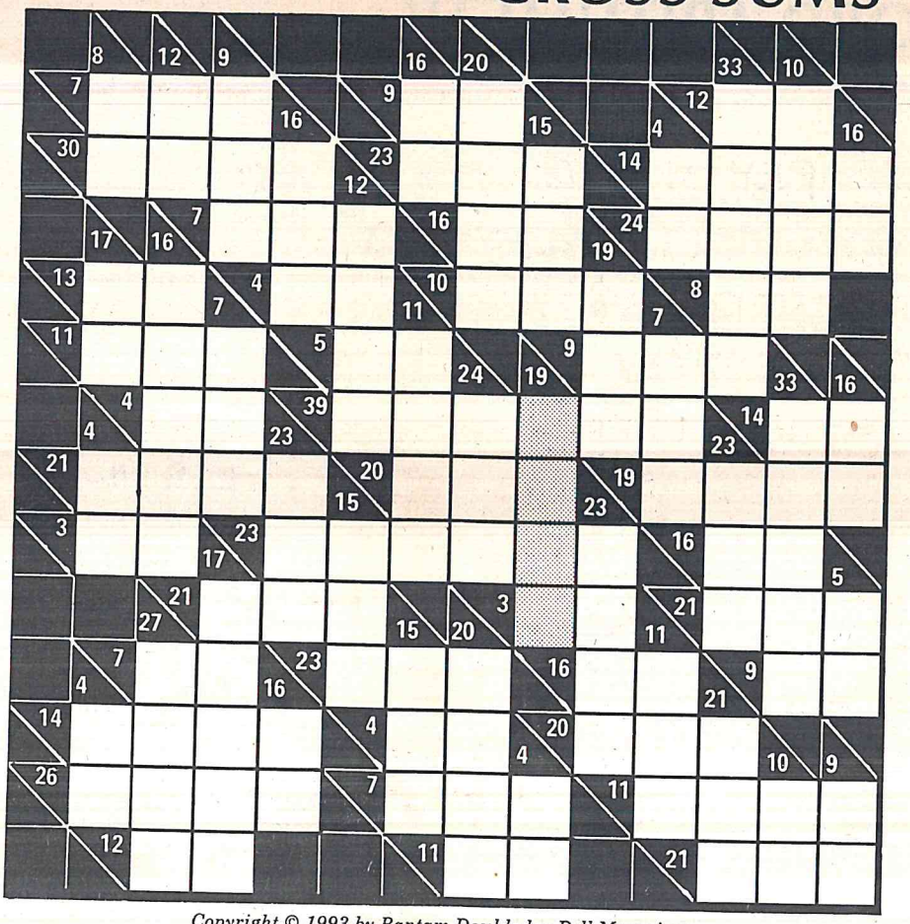
```
          GUN
SASH | SPRAINS
       AGPIS
        UUNUN
        SASH
         ARAHS
         ARAUR
          CH
```

9.

0 1 2 3 4 5 6 7 8 9

```
          MAR
HEM | MERGED
      EAMG
       RODE
       GHPM
        GMYD
        GDAD
         MOD
```

CROSS SUMS



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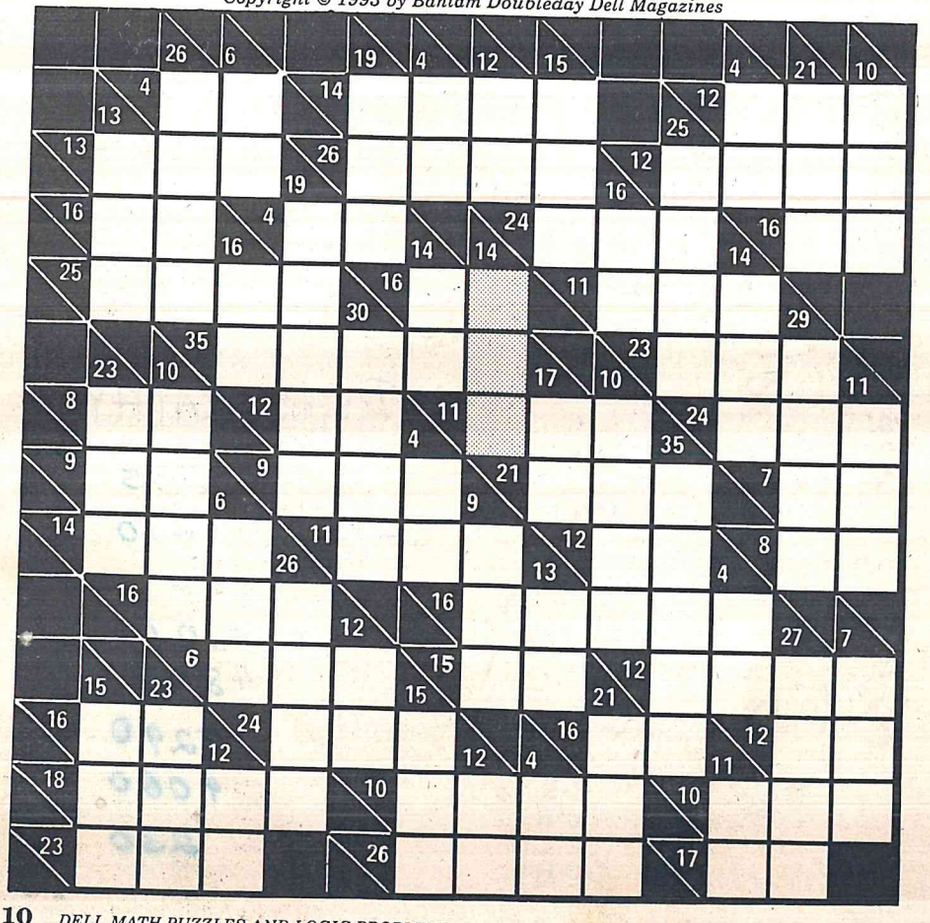
NUMBER 1

In Cross Sums puzzles, the numbers in the black squares refer to the SUMS of the digits which you are to fill into the empty spaces. The number ABOVE the diagonal line refers to the empty spaces directly to the RIGHT of that number. A number BELOW the diagonal line refers to the empty spaces directly BELOW that number.

No zeros are used here, only the digits one through nine. An important point: A digit cannot appear more than once in any particular digit combination. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

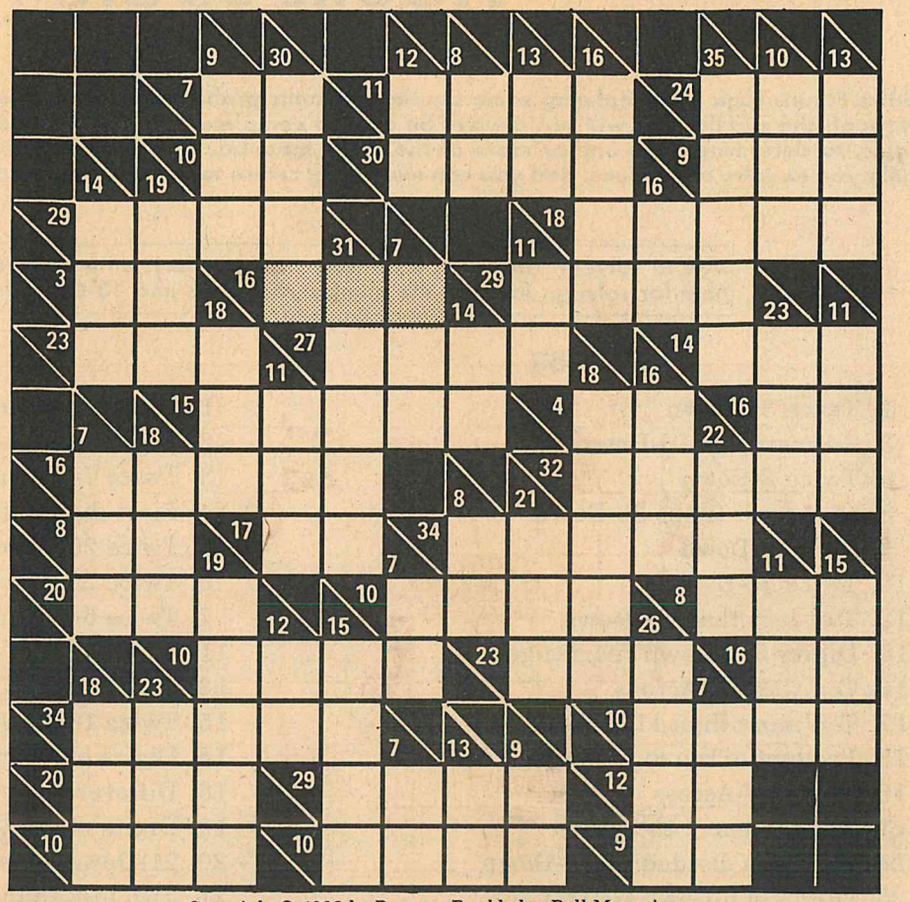
Solutions are on page 56.



NUMBER 2

CROSS SUMS

NUMBER 3



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Solutions are on page 56.

NUMBER 4

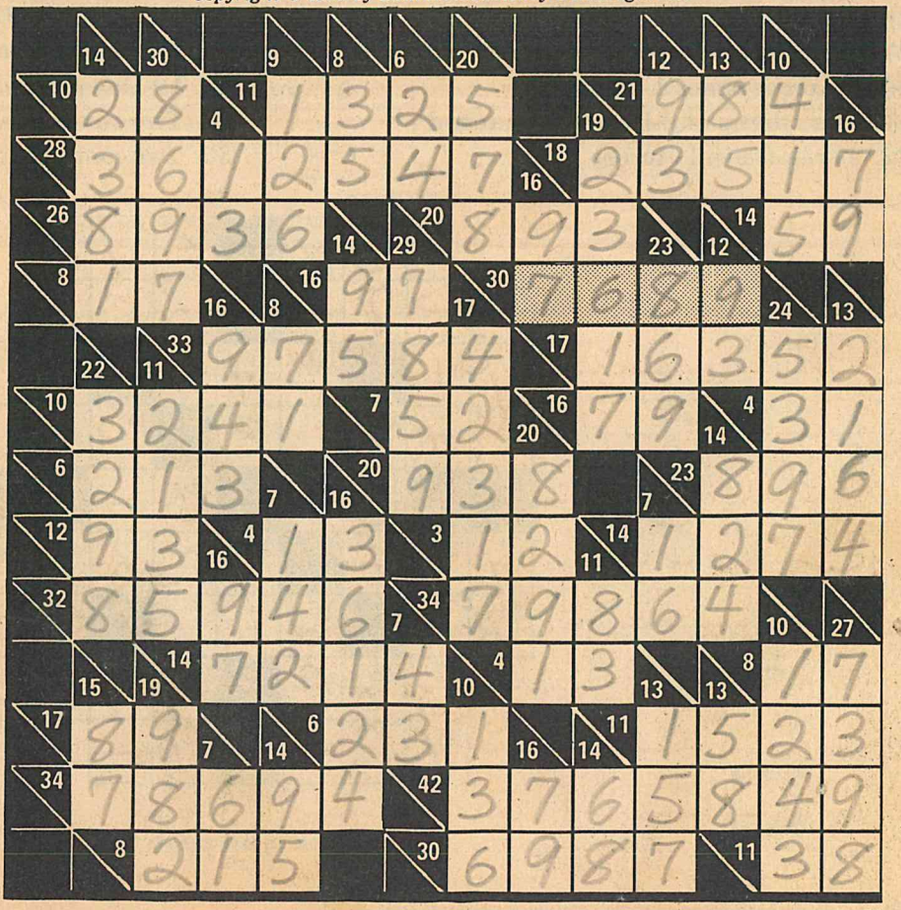

FIGURE LOGIC 1

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Solve Figure Logic by completing some simple arithmetic problems, which will enable you to move from clue to clue through the puzzle. You will not always be able to complete an entire number at first, but you may be able, by logic, to determine what one or more of the digits must be. If you enter those digits into the diagram, they may help you to solve other clues, and you can eventually return to the unfinished numbers and finally complete them.

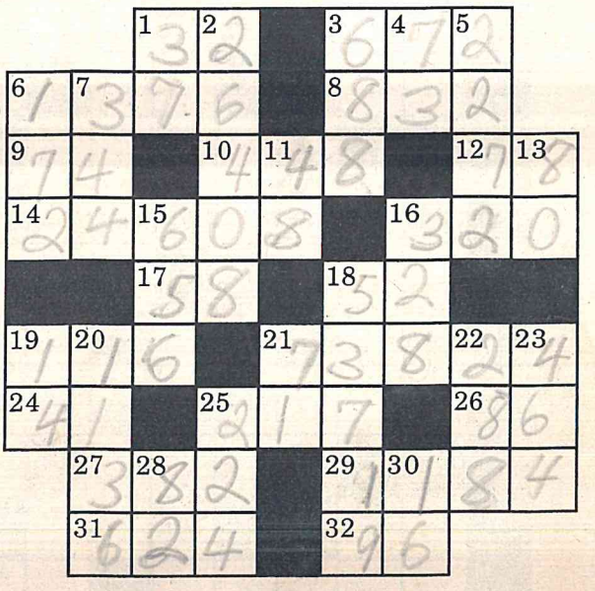
Due to solvers' requests, a number has not been entered into the diagram as a help for solving. Instead, the number that goes into 13-Down is listed on page 63.

ACROSS

1. Twice 30-Down
3. 7-Down plus 16-Down
6. Twice 3-Down
8. 18-Across times 30-Down
9. Twice 1-Down
10. Twice 25-Down
12. Two less than 13-Down
14. Digits of 2-Down rearranged
16. Ten times 1-Across
17. Ten more than 11-Down
18. Product of the digits is ten
19. Twice 17-Across
21. Three times 14-Across
24. 15-Down divided by 30-Down
25. Digits of 6-Down rearranged
26. Ten less than 32-Across
27. Digits of 16-Down rearranged
29. 1-Across times 1-Down
31. First digits of 2-Down rearranged
32. Three times 1-Across

DOWN

1. Digits of 4-Down reversed
2. Digits of 31-Across and 13-Down rearranged
3. Twice 7-Down
4. First digits of 21-Across
5. Twice 20-Down
6. Twice 26-Across
7. Twice 6-Down
11. Last digits of 10-Across
13. One-fourth of 16-Across
15. Twice 16-Down
16. Digits of 8-Across rearranged
18. Different odd digits
19. Digits of 24-Across reversed
20. 21-Down times 30-Down
21. Two less than 4-Down
22. Three times 32-Across
23. 3-Down minus 25-Down
25. 19-Down times 30-Down
28. Two times 24-Across
30. Two more than 19-Down



Solution is on page 58

LOGIC PROBLEM

3. A LOOK AT THE LOCKERS

by Susan Zivich

Five students at Maxemin Central High School all jiggled their locks open at the same time. As the locker doors swung open, Peg exclaimed, "Look! this could be a Logic Problem. With just four clues, even a freshman could figure out which locker belongs to each of us." Vanderwall grabbed a passing freshman, who quickly worked it out and continued on her way to Math 1. Can you figure out each student's full name and which locker belongs to each student?

1. Becky and the Rosenberg teen share two classes.

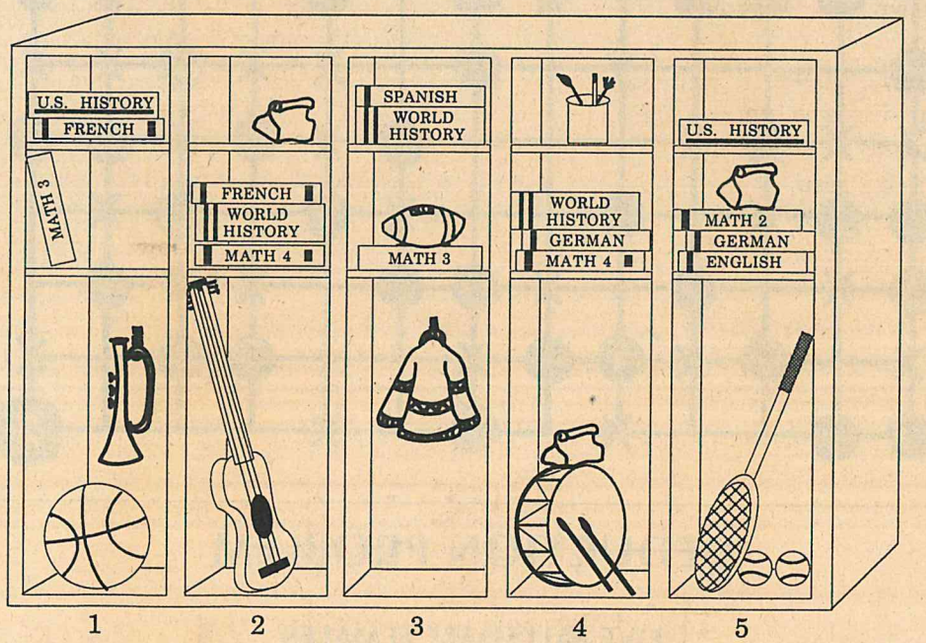
2. Ken and the O'Malley teen bought lunch in the school cafeteria.

3. Julie and the Gonzales teen have marching band practice in the afternoon.

4. Mark's sport requires a helmet; the Abernathy teen's does not.

Solution is on page 59.

An illustration of the lockers is provided. See page 6 for instructions for using standard charts.



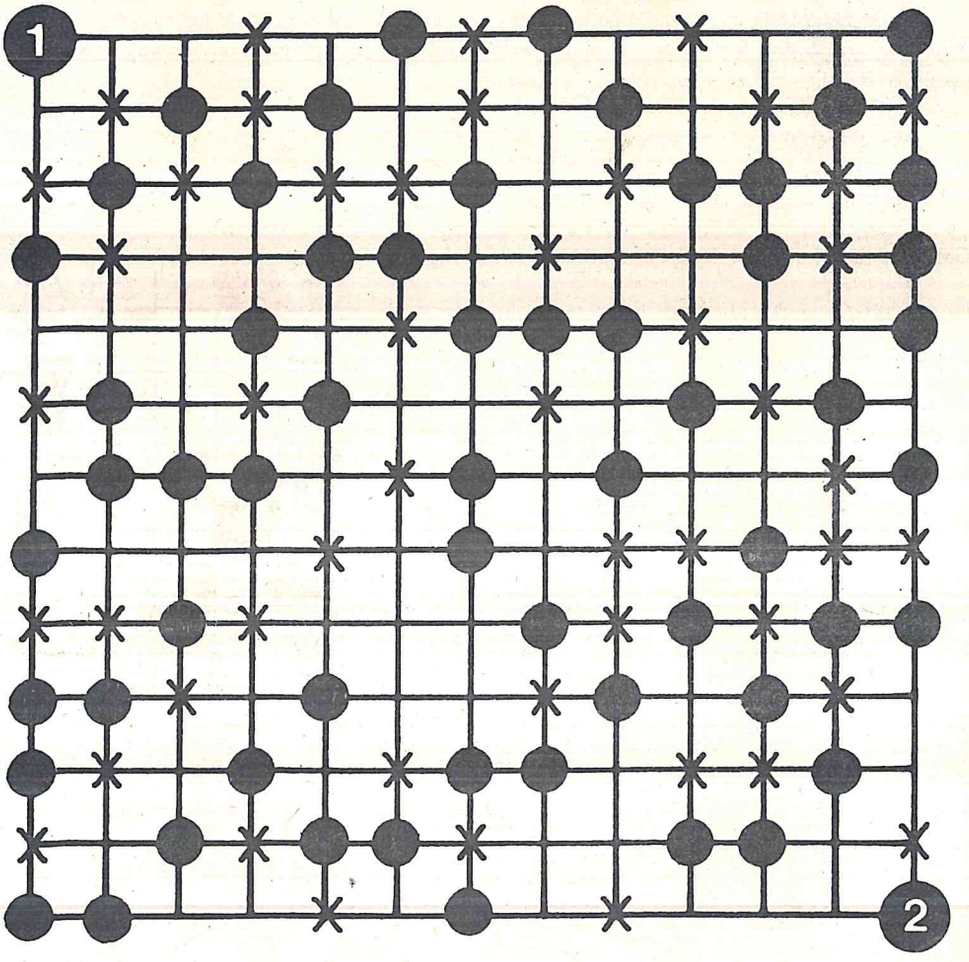
	Abernathy	Gonzales	O'Malley	Rosenberg	Vanderwall	1	2	3	4	5
Becky										
Julie										
Ken										
Mark										
Peg										
1										
2										
3										
4										
5										

DOTS AND X'S MAZE

by Bernard Myers

Find your way from #1 to #2 by moving through this maze in the following way: Move from one dot to another by jumping over one, and only one X with each move. You may move up, down, left, or right, but not diagonally.

Solution is on page 58.



DEDUCTION PROBLEM

FIVE FALLSDALE FEMALES

The latest issue of the Fallsdale Times ran a feature story and a large picture about the town's oldest inhabitant (who was almost, but not quite, 100 years old) and the four generations of her female descendants. From the following clues, can you identify the five generations of women and their ages? (Note: For the purpose of this Deduction Problem, a married woman always takes her husband's last name.)

1. All the women's ages are even numbers.
2. Jane's age is half Mrs. Ames's and twice Mrs. Phipps's.
3. None of the women were the same age when she had her daughter; Doris was the youngest (at age 18) and Mrs. Zarin's mother the oldest.
4. Mrs. Moss is Karen's grandmother.
5. Betty's age can be divided evenly into the ages of all the others except Edna's.

Solution is on page 61.

FIGURE LOGIC 2

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Directions for solving Figure Logics are on page 12.
If you need help starting this puzzle, a starting number is given on page 63.

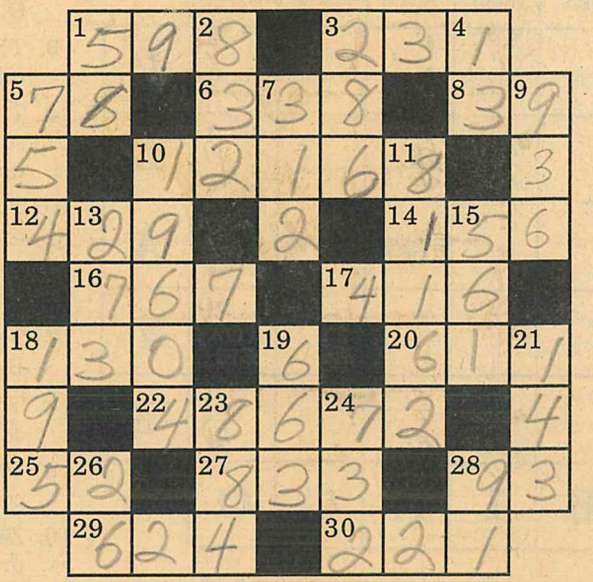
ACROSS

1. 3-Down plus 7-Down
3. Digits of 7-Down rearranged
5. Consecutive digits
6. Digits of 27-Across, reversed
8. Half of 5-Across
10. One-quarter of 22-Across
12. Three times 21-Down
14. One-sixth of 9-Down
16. 4-Down plus 5-Down
17. Eight times 25-Across
18. Five times 26-Down
20. 6-Across plus 13-Down
22. 25-Across times 9-Down
25. Twice 26-Down
27. One more than 2-Down
28. Digits of 8-Across reversed
29. Different even digits
30. 5-Across plus 21-Down

DOWN

1. Sum of the digits is 4-Down
2. Twice 17-Across
3. Different even digits
4. One-third of 8-Across
5. 1-Down times 4-Down
7. Half of 29-Across
9. Different multiples of three
10. 5-Down times 26-Down
11. Digits of 10-Across rearranged
13. Three times 28-Down
15. Digits of 14-Across rearranged
18. Five times 8-Across
19. Three times 30-Across
21. 25-Across plus 28-Down
23. Four times 30-Across
24. Digits of 13-Down rearranged
26. One-third of 5-Across
28. Seven times 4-Down

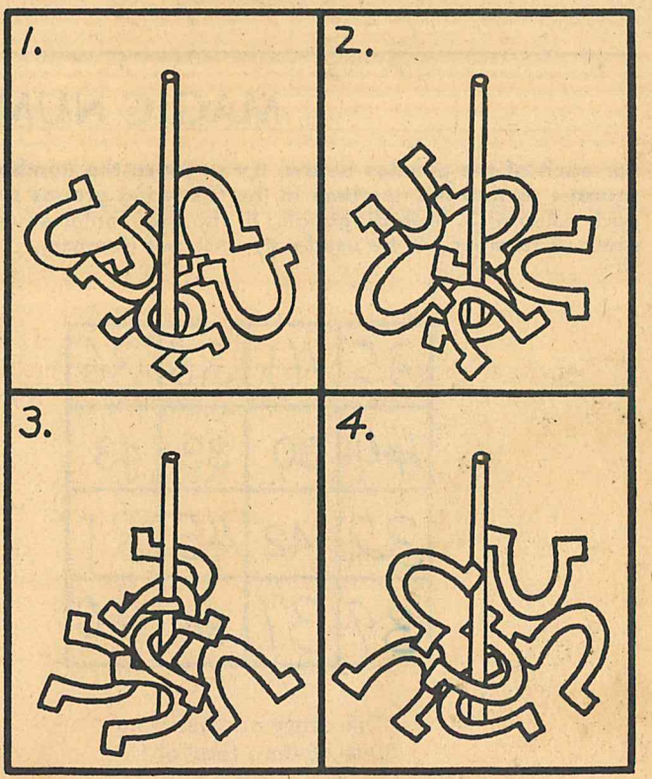
Solution is on page 58



COUNT THE RINGERS

Look at the four pictures and see if you can tell which box contains the peg with the most horseshoes around it.

Answer is on page 63.



BINGO PLAYS 1

In this puzzle, you are trying to fill your "card" with numbers and make a winning Bingo game. Just as in Bingo, each column has limits set for the numbers that can be placed in that column, as shown at the top of the card. For example, in column B, every square will have a number between 1 and 15 inclusive; in column N, every number will be between 31 and 45 inclusive. Use the given clues to eliminate possibilities within those limits until you can enter one final number in each square. A number will appear only once in any column. The "free" space in the center of the card is just that; you need not enter a number in that square. After you have filled in your card, find the Bingo winning combination: Just as in Bingo, the five numbers in one row, column, or diagonal will fit the clues given. Circle these numbers and you have won the game!

Solution is on page 58.

There is another Bingo Plays on page 37.

	B 1-15	I 16-30	N 31-45	G 46-60	O 61-75	
P	10	27	36	52	68	P
L	1	19	44	59	71	L
A	9	28	FREE	58	64	A
Y	6	24	41	57	63	Y
S	2	29	39	47	75	S
	B	I	N	G	O	

1. The number one does not appear in row A or S, column G, or square PI, PN, PO, LN, YB, YI, or YO.
2. The number two does not appear in row L, column N or O, square PB or YG, or in the **winning combination**.
3. The number three does not appear in row L or A, column B, I, or G, or square YN or SO.
4. The number four does not appear in row P, column B, square LG, LO, AG, YG, SN, or SO, or in the **winning combination**.
5. The number five does not appear in column B, I, or N or square PO, AO, YO, or SG.
6. The number six does not appear in row L or S or column I or G.
7. The number seven does not appear in row A, column B or N, or square PO, LI, or YO.
8. The number eight does not appear in row L, Y, or S, column B or N, or square PI, PG, or AO.
9. The number nine does not appear in row P or Y, column O, or square SB or SG.
10. Zero does not appear in row L, A, Y, or S or column I or G.
11. The number 44 is the only double-number combination on the card.

MAGIC NUMBER SQUARES

For each of the puzzles below, try to place the numbers allowed by the rule under each diagram into its blank squares so that the numbers in the following groups add up to the total given with the diagram: 1. each row; 2. each column; 3. both diagonals; 4. the four center squares; 5. the four corner squares; 6. each quarter of the diagram. A number will be used only once per diagram.

Solutions are on page 58.

1.

35	41	38	36
44	30	33	43
32	42	45	31
39	37	34	40

Use every number from 30 to 45 for a total of 150.

2.

45	69	57	49
81	25	37	77
33	73	85	29
61	53	41	65

Use every fourth number from 25 to 85 for a total of 220.

LOGIC PROBLEM

4. THE BYRDS

by Mary Powell

When Clarence and Marie Byrd were young parents, they had no idea their children would become the brunt of so much teasing by other children. "He called me 'blue Jay,'" the eldest child cried after his first day of school.

"He called you that because he likes you," Marie assured her firstborn. "It's a nickname, and you know we give nicknames only to our friends."

Through grammar school years, sounds of "Hey, cuckoo bird" and "Fly away, birdie" resounded throughout the house as the Byrd kids entertained their friends. Their house also became the haven for every injured bird in the neighborhood as the cry "Take it to the Byrds" became widespread. The local veterinarian was very helpful in teaching the children and their parents how to tend sick and injured birds; and it was no surprise to anyone when one Byrd child decided to become a veterinarian.

As the children grew older, they gravitated toward others with "bird" names. Eventually, Robin and her three brothers each married someone with a "bird" name. From the following clues, can you find the profession of each Byrd child (one is a singer) and the full name of each Byrd child's spouse (one maiden name is Crowe)? (Note: For the purpose of this Logic Problem, you can assume that each woman took her husband's last name when they married.)

1. During a recent family gathering, Will and the clockmaker sat across the table from Mrs. Finch and Ellen's husband.
2. Jay is not married to the former Ms. Raven.
3. Martin and Sally's husband play golf with their brother-in-law Henry.
4. Louise is not the former Ms. Wren, who is not married to the pilot.
5. Neither Sally nor the former Ms. Raven is married to the veterinarian.
6. The clockmaker does not play golf.

Solution is on page 59.

Enter the correct names and professions as you determine who does what and is married to whom.

Byrd child	profession	spouse's first name	spouse's original last name

WORD ARITHMETIC

Directions for solving are on page 9.

Solutions are on page 63.

10. CHILDGAMES

0 1 2 3 4 5 6 7 8 9

```
                1233
              H I L L
42089   | 91833609
D I C E S | S H E L L A C S
  42089
  D I C E S
  27376
  E M L M A
  74180
  M D H E C
  141860
  H D H E A C
  125279
  H I G I M S
    195799
    H S G M S S
    115179
    H I G I M S
      30960
      L C S A C
```

11.

0 1 2 3 4 5 6 7 8 9

```
          O R E
R E S T S | T E S T E R S
    R E S T S
    N S S S R R
    N A E S E R
      N R L O L S
      N O S S R M
        G L O R G
```

12.

0 1 2 3 4 5 6 7 8 9

```
          P I T
S A P | A W A I T S
    A M P H
      M T T T
      M S T C
        M H H S
        M C H A
          A L P
```

13.

0 1 2 3 4 5 6 7 8 9

```
          O D D
A C I D | C A N D O R
    I O K N
      P D A O
      M P A K
        P K M R
        M P A K
          A D D A
```

14. SOILNATURE

0 1 2 3 4 5 6 7 8 9

```
              784
            U R N
1230    | 3206940
O I L S | L I S T E N S
  29650
  I E T A S
  21894
  T O R E N
  25580
  I A A R S
    31140
    L O O N S
    33420
    L L N O S
      620
      T O S
```

15.

0 1 2 3 4 5 6 7 8 9

```
          E L I
B I B | G L U E D
    B I B
    O N G E
    O U B R
      U U E D
      U R D B
        O N I
```

16. CLEANSKIRT

0 1 2 3 4 5 6 7 8 9

```
              124
            L E N
795     | 98706
I T S | T R I C K
  795
  I T S
  1220
  L T E C
  1590
  L S T C
  3306
  A A C K
  3180
  A L R C
  126
  L E K
```

17.

0 1 2 3 4 5 6 7 8 9

```
          P A W
A S K | S L E E P Y
    S I K Y
      F I F P
      F W E L
        F A Y
```

18. LUBRICATED

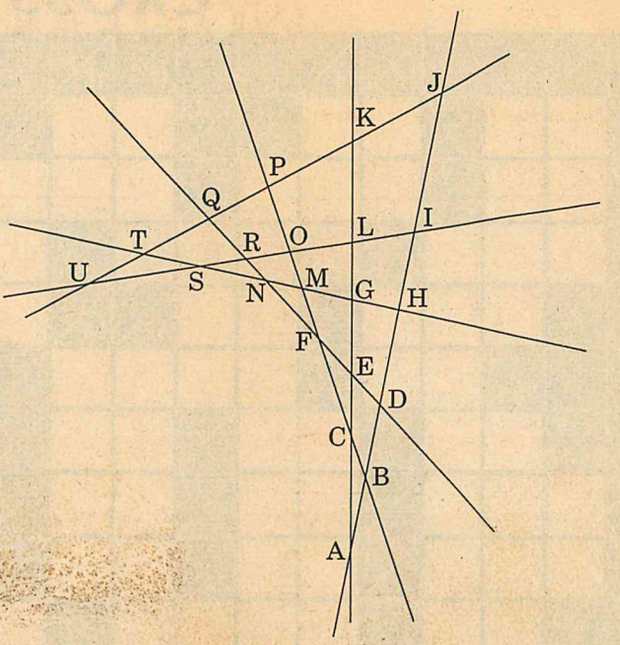
0 1 2 3 4 5 6 7 8 9

```
              49
            I D
2013    | 98163
B L U R | D E T E R
  3052
  E L C B
  98263
  U E B A R
  98117
  U E U U T
    146
    U I A
```

TRIANGLE TANGLE

To solve this puzzle, write down the three letters that describe each triangle (three-sided figure) in the tangle of lines to the right. There are 35 triangles in all; how many can you find?

Answer is on page 61.



NUMBER PLACE

In these puzzles, your job is to place a number into each box so that each row across, each column down, and each small 9-box square within the larger square (there are 9 of these) will contain each number 1 through 9. Remember that no number may appear more than once in any row, column, or 9-box square; this will help you solve the puzzle.

There are more Number Places on page 38.

1.

6	8	4	1	3	2	7	9	5
9	5	2	7	4	8	6	1	3
3	1	7	5	9	6	4	2	8
2	7	8	9	5	1	3	4	6
5	4	6	2	8	3	1	7	9
1	3	9	4	6	7	5	8	2
7	2	5	6	1	9	8	3	4
4	9	3	8	7	5	2	6	1
8	6	1	3	2	4	9	5	7

2.

5				9	1		7	
	2	9			4	8		
		7	8			1		9
	5		1	6			9	
3					9		8	2
7		8		4		5		
	3			2		6		7
	6	5	3					1
9			4		6		5	

3.

8	2	4	7	5	1	3	6	9
7	6	9	4	3	2	8	1	5
3	5	1	8	6	9	4	2	7
9	1	5	3	2	8	7	4	6
6	3	2	5	7	4	9	8	1
4	8	7	9	1	6	5	3	2
2	7	3	6	8	5	1	9	4
1	4	8	2	9	7	6	5	3
5	9	6	1	4	3	2	7	8

4.

9	6	3	1	4	5	7	2	8
8	4	1	2	3	7	6	5	9
7	5	2	8	6	9	1	3	4
6	9	7	4	5	8	3	1	2
1	8	5	9	2	3	4	7	6
3	2	4	6	7	1	9	8	5
2	3	9	7	8	6	5	4	1
5	1	8	3	9	4	2	6	7
4	7	6	5	1	2	8	9	3

5.

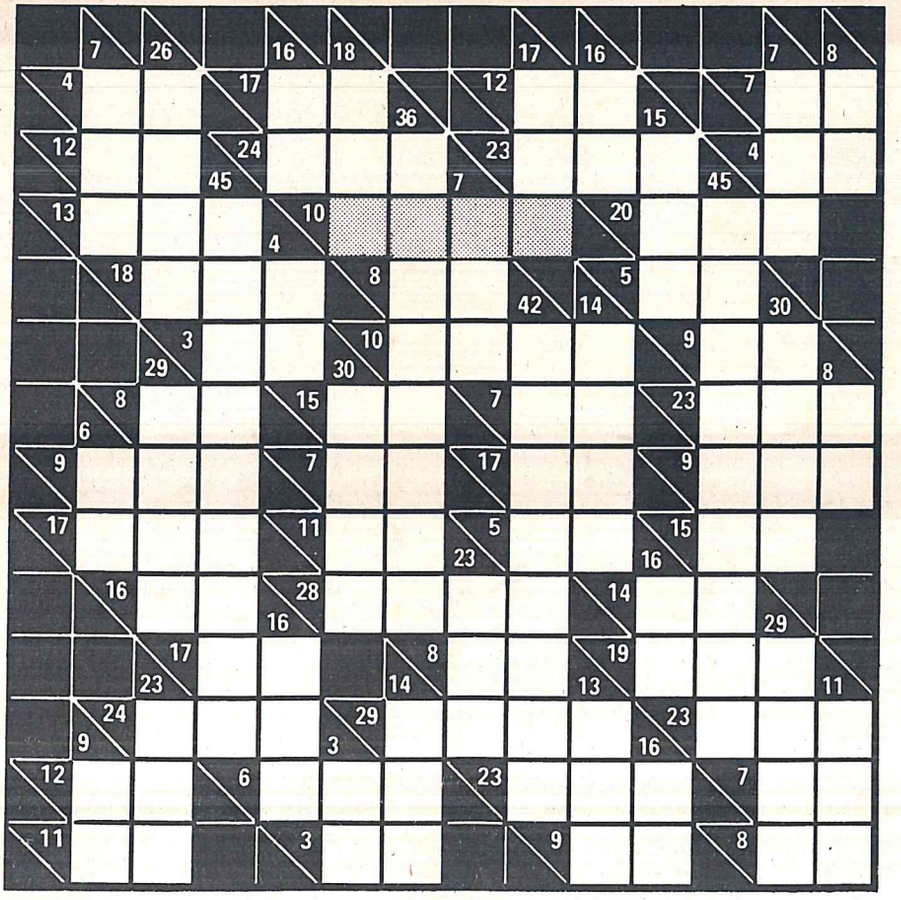
1	8	7	4	3	6	5	2	9
4	2	5	9	7	1	3	8	6
9	3	6	5	2	8	4	1	7
6	1	3	2	9	7	8	4	5
8	7	4	1	5	3	6	9	2
5	9	2	8	6	4	7	3	1
3	6	1	7	4	2	9	5	8
7	5	8	3	1	9	2	6	4
2	4	9	6	8	5	1	7	3

6.

7	8	5	1	9	4	3	6	2
9	6	1	3	2	5	8	7	4
4	2	3	7	8	6	5	9	1
8	9	4	5	6	7	2	1	3
5	1	7	2	4	3	9	8	6
2	3	6	9	1	8	4	5	7
6	5	8	4	7	2	1	3	9
1	7	2	8	3	9	6	4	5
3	4	9	6	5	1	7	2	8

Solutions are on page 58

CROSS SUMS



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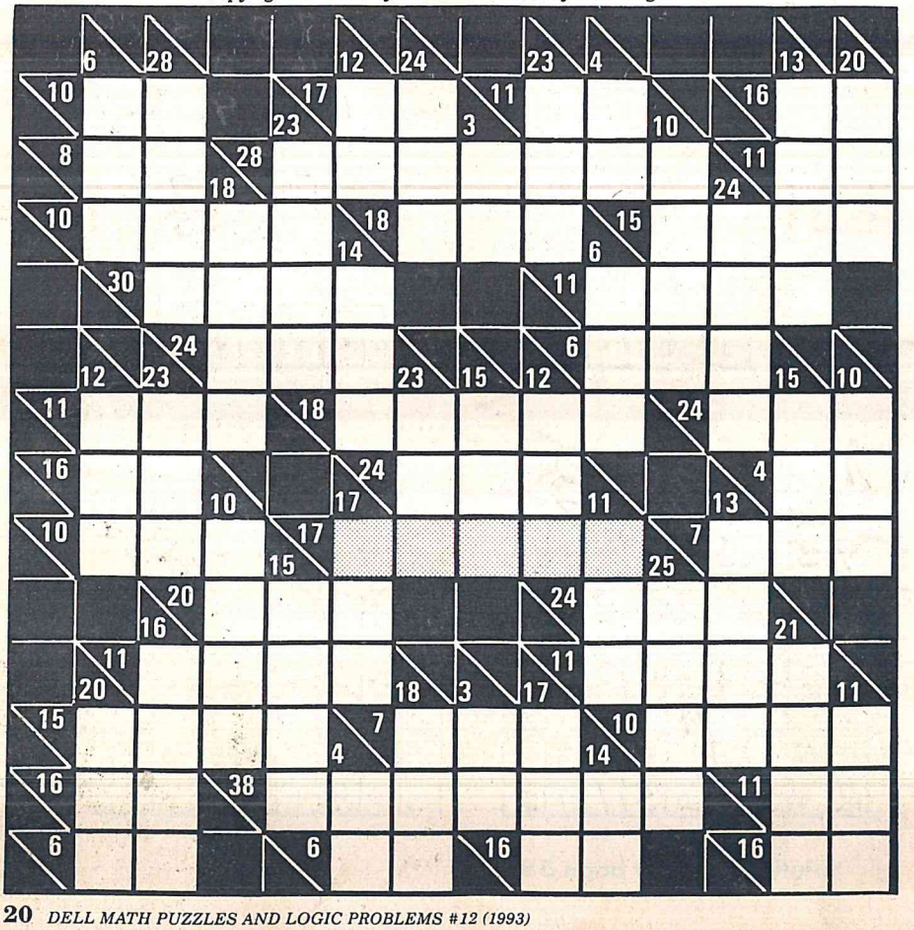
NUMBER 5

Directions for solving are on page 10. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

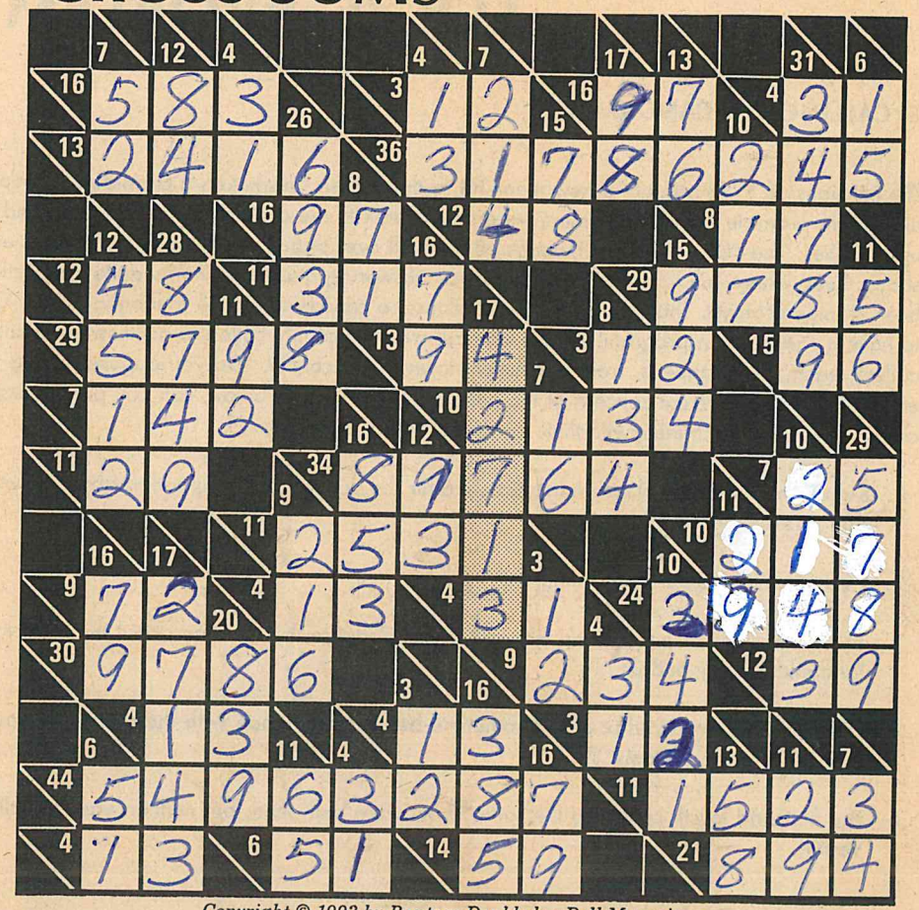
Solutions are on page 56.



NUMBER 6

CROSS SUMS

NUMBER 7



Solutions are on page 56.

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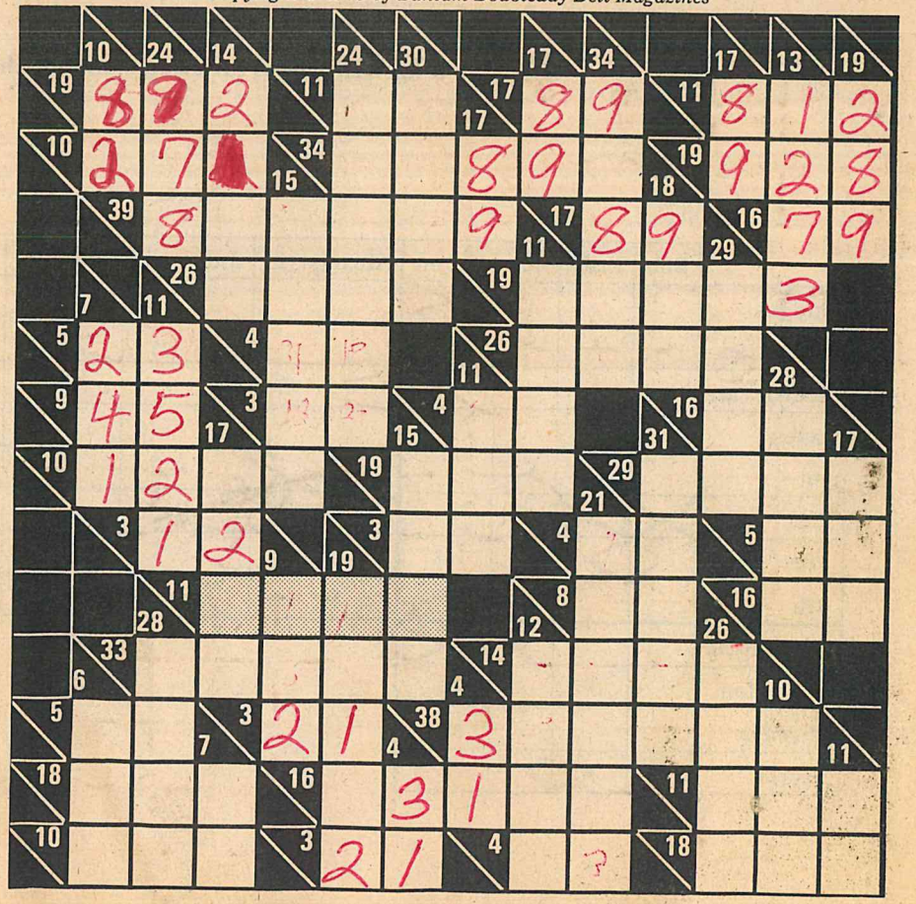
NUMBER 8



LOGIC PROBLEM

5. CALLING THE CANDIDATE

by Diane C. Baldwin

The elections of 1992 brought a new meaning to the phrase "marketing a candidate." People running for office used every possible medium to promote themselves. Voters were able to talk to the candidates on television and radio call-in shows. Candidates showed up at rallies. The "town meeting" became popular all over again. A couple of candidates even did personal interviews on children's shows. Everywhere you turned, a candidate was answering questions. It was quite an election year! The face of future elections had been changed forever. That's why Alvin G. Ordanse, a candidate for the Tandanko County Council, decided it would be a good idea to have a radio call-in program. People from all over the county called to ask him questions. Bob and Joy were among the first four callers, each, as it happens, from a different town in the county. "Do you oppose raising taxes?" was one of the questions, which each related to a different concern of the people. From the clues below, can you put the first four callers into the order in which they called as well as match them with their towns and topics of questions?

1. Karen phoned Mr. Ordanse immediately after the caller with the question about universal health care and just before the man from Alexeistria.
2. Fred wasn't the caller from Jalington.
3. The first caller was not the one who asked Mr. Ordanse the question about the importance (and the feasibility) of balancing the Tandanko County budget.
4. The woman from Niredax called sometime before the woman with the question about the quality of the education offered in Tandanko County schools.
5. The first and fourth callers to the radio show were both men, but neither was the caller who was using a cellular telephone in Vestla.

Solution is on page 59.

See page 6 for instructions for using standard charts.

	Bob	Fred	Joy	Karen	Alexeistria	Jalington	Niredax	Vestla	1st	2nd	3rd	4th
budget												
education												
health care												
taxes												
1st												
2nd												
3rd												
4th												
Alexeistria												
Jalington												
Niredax												
Vestla												

GRIDDIGITS

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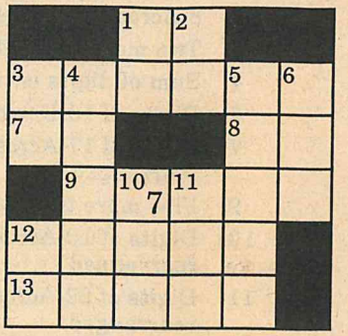
Griddigits are solved in crossword puzzle fashion using the numbers 1–9 instead of letters. Each Across and Down clue gives the sum of the digits of that answer. The trick here is that all answers consist of a series of consecutive numbers, although the numbers may be out of order in the answer. In puzzle 1, for example, 6-Down must add up to 21. The three consecutive numbers that add up to 21 are 6, 7, and 8; but they can be placed 7, 8, and 6 in the diagram. 3-Across also adds up to 21. The only six consecutive numbers that add up to 21 are 1, 2, 3, 4, 5, and 6. Since both answers require a 6, and that is the only number they have in common, that number must go into the shared box. Note: One number has been entered to help you get started in puzzle 1. These puzzles may be harder than they look!

Solutions are on page 58.

1.



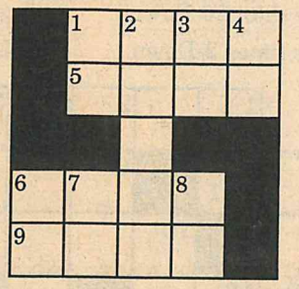
ACROSS

1. 5
3. 21
7. 5
8. 15
9. 35
12. 30
13. 25

DOWN

1. 7
2. 5
3. 5
4. 15
5. 35
6. 21
10. 18
11. 21
12. 9

2.



ACROSS

1. 14
5. 10
6. 26
9. 22

DOWN

1. 7
2. 15
3. 9
4. 5
6. 15
7. 11
8. 13

PRESTO-CHANGO!

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By changing ONE letter in each word, you can form three new words that are related to each other in some way. Do not change the order of the letters. For example, FREE, DARK, WEAVES could be changed to TREE, BARK, LEAVES.

Answers are on page 60.

1.	WOOL	PLANT	HOARD
2.	BRINE	LISLE	VEAL
3.	WORN	AVERT	SIRED
4.	PEACE	BUZZ	SIT
5.	GAVE	SHOT	HOSE
6.	COWER	QUIET	BEE
7.	PEA	RIGOR	RIM
8.	SCORN	TRUE	FAIL
9.	POMP	CAPES	PLAN
10.	STEAL	BEAR	RIVER
11.	DULL	WELD	LAIN
12.	GOOD	CHAIR	NICK
13.	HUNCH	LOON	SHACK
14.	TOWED	BENCH	LAND

FIGURE LOGIC 3

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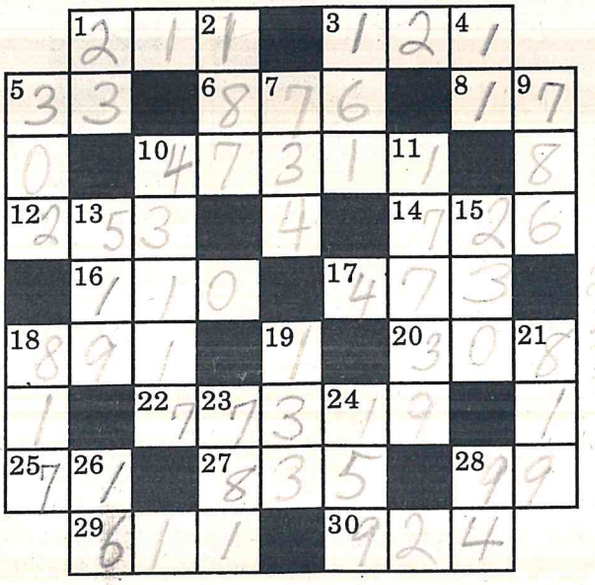
Directions for solving Figure Logics are on page 12.
Note: A square of a number is that number multiplied by itself.
If you need help starting this puzzle, a starting number is given on page 63.

ACROSS

1. Digits of 3-Across rearranged
3. Square of 4-Down
5. Three times 4-Down
6. Digits of 9-Down rearranged
8. One more than 26-Down
10. 12-Across times 2-Down
12. 1-Down times 4-Down
14. 12-Across plus 17-Across
16. 28-Across plus 4-Down
17. 23-Down minus 20-Across
18. Digits of 21-Down rearranged
20. 3-Across plus 2-Down
22. 28-Across times 23-Down
25. Digits of 8-Across reversed
27. 21-Down plus 26-Down
28. Three times 5-Across
29. Digits of 3-Down rearranged
30. Three times 20-Across

DOWN

1. Consecutive digits
2. 8-Across times 4-Down
3. Two more than 24-Down
4. Sum of digits is two
5. Digits of 15-Down rearranged
7. Digits of 17-Across rearranged
9. Five more than 23-Down
10. Digits of 10-Across rearranged
11. Digits of 22-Across rearranged
13. 1-Across plus 20-Across
15. 12-Across minus 1-Down
18. Digits of 23-Down rearranged
19. 16-Across plus 1-Down
21. Two more than 18-Down
23. 25-Across times 4-Down
24. Digits of 13-Down rearranged
26. Five more than 4-Down
28. 25-Across plus 1-Down



Solution is on page 58

LETTER LINK

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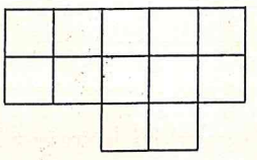
See if you can place the letters into the diagram in such a way that by moving horizontally, vertically, and/or diagonally from square to square (without skipping over any squares) the sentence next to the diagram can be spelled out. Note: Put each letter into the diagram only once, even though you will use some letters more than once in spelling out the sentence. If you need help getting started, the box in which the "W" should go is listed on page 63.
Our solution, which may not agree with yours, is on page 58.



A E G H I N O R S T U W

When anger is in, reason is out.

LOGIC PROBLEM

6. LOGICAL ENTERTAINMENT

by Anne Smith

"Logical" Lola Revlos was thrilled when she discovered five Logic Problems in her new puzzle magazine. After persuading her family to go bowling for the evening, she sat down to begin a night of logical entertainment. At 7:00 p.m., Lola sat down to begin solving her favorite puzzle, starting with puzzle #1 and continuing in order through puzzle #5, taking five-minute snack breaks between puzzles. At 10:00 p.m., just as she had finished her fifth and final Logic Problem, the family Revlos returned. They were quite curious as to how Lola had spent her evening. In response, Lola wrote down the following clues, challenging her family to figure out, in order, each puzzle's topic (one was about family vacations) and constructor (one was by Harold V. Stormer), along with the time it took to complete each puzzle. Lola's family completed her problem and vowed that the next time they would stay home to solve Logic Problems instead of going bowling. Can you do Lola's Logic Problem?

1. I took twice as long to do puzzle #3 as I took to complete the puzzle about the birthday presents, which took me twice as long as the puzzle constructed by Dakota R. McCann.

2. The puzzle written by Jennifer E. Chao took me twice as long to complete as the puzzle about the minor league sports teams.

3. I did these three puzzles in the following order: the puzzle about aliens from outer space, the puzzle written by Marie T. Stanitz, and the puzzle that took me 40 minutes to complete.

4. At 7:35 p.m., I completed puzzle #2 and ate some potato chips with onion dip; at 8:25 p.m., after eating a peach, I began puzzle #4.

5. I did the puzzle about the dinner party after I did the problem that took me 30 minutes, which was not written by my favorite constructor, Carmine D. Rigoni.

Solution is on page 59.

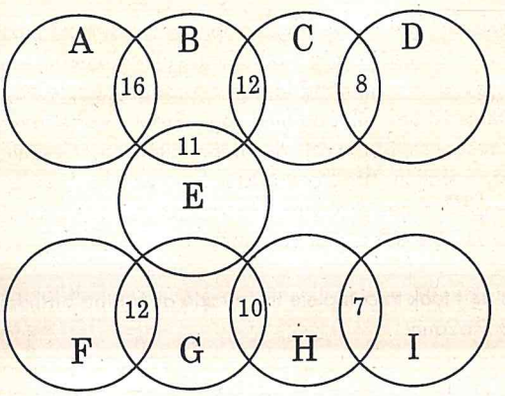
Enter the correct constructors' names, puzzle topics, and times of completion as you determine who made each puzzle, what it was about, and how long it took Lola to complete each puzzle.

puzzle	constructor	puzzle topic	time of completion
#1			
#2			
#3			
#4			
#5			

CIRCLE MATH

This diagram is composed of overlapping circles, each of which is identified by a letter. Each letter has a different number value, from 1 to 9. Where some of the circles overlap, there may be a number: this number is the SUM of the values of the letters in the overlapping circles. Can you figure out the correct number value for each letter?

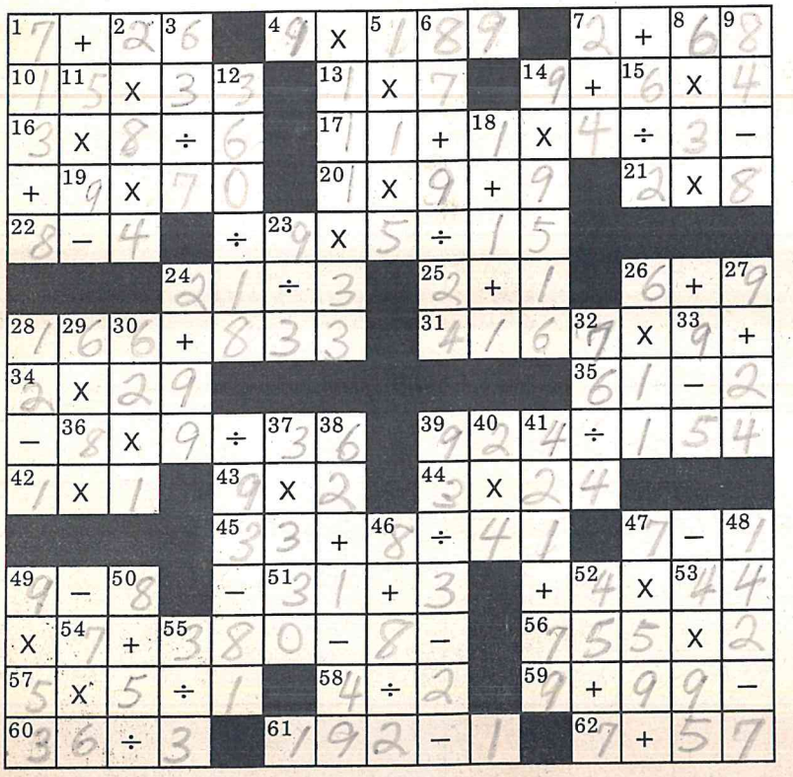
Answer is on page 63.



CROSSMATH 1

This looks like a crossword puzzle, but it involves numbers, not words. The numbers given in the clues columns are the answers to simple arithmetic problems; the numbers you enter into the diagram will form the problems which result in those answers. All the arithmetic symbols (+, −, x, ÷) have already been entered in their appropriate squares in the diagram. Use the symbols, the crossing numbers, and a bit of logic to determine the digit to enter in each blank square (one digit per square). An important thing to remember: the arithmetic is to be done in the order in which it reads, from left to right or top to bottom—for example, 1 + 2 x 3 equals 9 (1 + 2 = 3; 3 x 3 = 9). If done in any other order, your solution won't work. Arithmetic signs at the beginning or end of a problem (as in 11-Down) should be ignored. You will never use zero as the first digit of a number, though there may be zeroes used as later digits. There are no negative numbers used here, nor are there any fractions used.

There is another Crossmath on page 37.



Solution is on page 58

ACROSS

1. 33
4. 1,701
7. 70
10. 495
13. 7
14. 60
16. 4
17. 16
19. 630
20. 18
21. 16
22. 4
23. 3
24. 7
25. 3
26. 15
28. 999
31. 37,503
34. 58
35. 59
36. 2
39. 6
42. 1
43. 18
44. 72
45. 1
47. 6
49. 1
51. 34
52. 176
54. 379
56. 1,510
57. 25
58. 2
59. 108
60. 12
61. 191
62. 64

DOWN

1. 721
2. 64
3. 9
5. 5
6. 4
7. 6
8. 18
9. 76
11. 45
12. 20
13. 3,663
14. 85,644
15. 3
18. 3
23. 3
24. 101
26. 66
27. 33
28. 11
29. 48
30. 62
32. 19
33. 4
37. 990
38. 14
39. 29
40. 8
41. 500
43. 12
46. 8
47. 413
48. 135
49. 477
50. 13
52. 52
53. 380
54. 42
55. 1

FIGURE LOGICS 4 & 5

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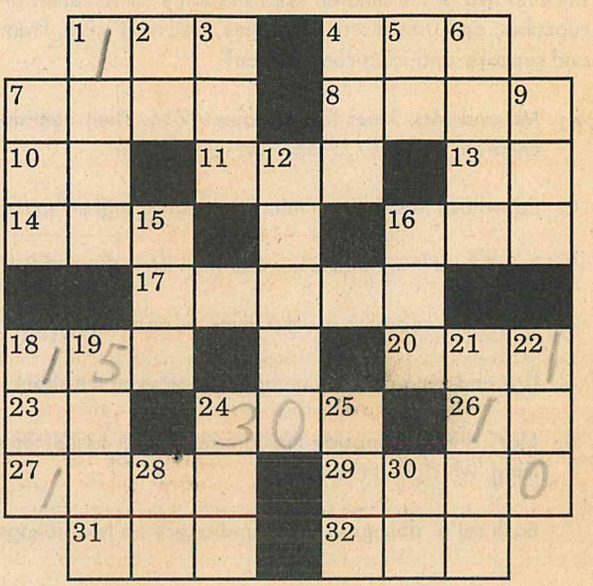
Directions for solving Figure Logics are on page 12.
If you need help starting these puzzles, starting numbers are given on page 63.

ACROSS

1. 13-Across plus 5-Down
4. Consecutive digits rearranged
7. Consecutive digits
8. 24-Across times 2-Down
10. Last digits of 32-Across
11. Last digit is sum of first digits
13. 23-Across plus 2-Down
14. Last digit is sum of first digits
16. 23-Across plus 4-Down
17. 26-Across times 1-Down
18. 13-Across plus 30-Down
20. Consecutive digits rearranged
23. Three times 26-Across
24. Twice 18-Across
26. Sum of digits of 15-Down
27. Sum of digits is 2-Down
29. Ten times 31-Across
31. One more than twice 18-Down
32. Consecutive digits rearranged

DOWN

1. 23-Across squared
2. Twice 26-Across
3. Different multiples of three
4. 26-Across times 5-Down
5. Twice 2-Down
6. Twice 21-Down
7. 10-Across times 26-Across
9. 24-Across plus 28-Down
12. Square of 22-Down
15. First digit is the product of the last digits
16. First digit is the sum of the last digits
18. One more than 22-Down
19. Three times 1-Down
21. Square of 5-Down
22. Ten times 26-Across
24. Middle digit is the product of the end digits
25. One more than 15-Down
28. Seven times 26-Across
30. Twice 23-Across

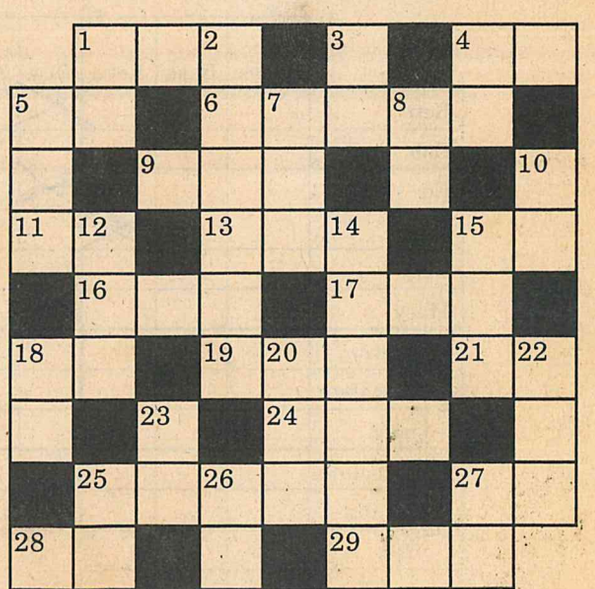


ACROSS

1. 15-Down minus 10-Down
4. One less than 4-Down
5. One-third of 3-Down
6. 1-Across times 5-Down
9. Digits of 20-Down rearranged
11. Two times 21-Across
13. Two times 22-Down
15. One-half of 18-Down
16. Twice 29-Across
17. 1-Down times 10-Down
18. Four times 8-Down
19. Nine times 11-Across
21. Digits of 27-Across reversed
24. Digits of 19-Across rearranged
5. 7-Down times 10-Down
Two more than 15-Across
4-Across minus 21-Across
x times 28-Across

DOWN

1. One-half of 5-Across
2. Consecutive digits in some order
3. Three less than 25-Down
4. Twice 18-Across
5. 19-Across minus 12-Down
7. 19-Across plus 4-Down
8. Two more than 1-Down
10. One more than 23-Down
12. 20-Down minus 4-Down
14. Consecutive digits in some order
15. 5-Down minus 11-Across
18. 13-Across divided by 8-Down
20. 16-Across minus 10-Down
22. Twice 1-Across
23. 7-Down divided by 8-Down
25. Digits of 26-Down reversed
26. One-half of 10-Down
27. Four more than 27-Across



Solutions are on page 58

LOGIC PROBLEM

7. MR. JONES — THE CUPCAKE KING

by William R. Pinkston

Mrs. Jones was sorely vexed last Saturday afternoon. She had a big Sunday lunch to prepare and she simply couldn't get Mr. Jones out of the kitchen. "Just this once, Jerry," she pleaded. "The neighborhood kids can survive one Saturday without cupcakes, can't they?" But, Mr. Jones refused to listen. He just promised he would work a little faster and then Mrs. Jones could have her kitchen back. He even offered to help prepare Sunday's lunch, but Mrs. Jones wanted to have a chance at cooking, too. So Mr. Jones finished his baking for six of the neighborhood children. He never failed to remember their specific likes and dislikes, and this was no easy feat since no two of the children liked the same combination of cupcake flavor and cupcake icing. Mr. Jones bakes chocolate and vanilla cupcakes, and uses cherry, chocolate, and mint icing. From the clues below, can you determine each child's full name, house number, and cupcake-and-icing combination?

1. Mr. and Mrs. Jones live at house #716. Their next-door neighbors on either side are #714 and #718; each is a home for two children. House #717 also has two children.
2. Ed, whose favorite isn't mint icing, has a higher house number than Bob.
3. Lucy has a lower house number than Ben; she and Ben both prefer the same icing, which isn't mint.
4. Chocolate cupcakes are the favorites of two boys; neither is the Bass boy.
5. Lisa and the Reeds live on opposite sides of the street.
6. Mary, living alongside the Joneses, has a higher house number than the Ames children; she and her brother prefer the same icing, which isn't cherry.
7. Each set of siblings is a boy and a girl; no two siblings like the same cake flavor.

Solution is on page 59.

See page 6 for instructions for using standard charts. Note that in this chart some rows and columns will contain more than one dot as there are six children and only two cupcake flavors, three icings, and three houses.

		Ames	Bass	Reed	714	717	718	cupcake: chocolate	cupcake: vanilla	icing: cherry	icing: chocolate	icing: mint
Ben												
Bob												
Ed												
Lisa												
Lucy												
Mary												
icing	cherry											
	chocolate											
	mint											
cup.	chocolate											
	vanilla											
714												
717												
718												

LOGIC PROBLEM

8. MODERN GODDESSES

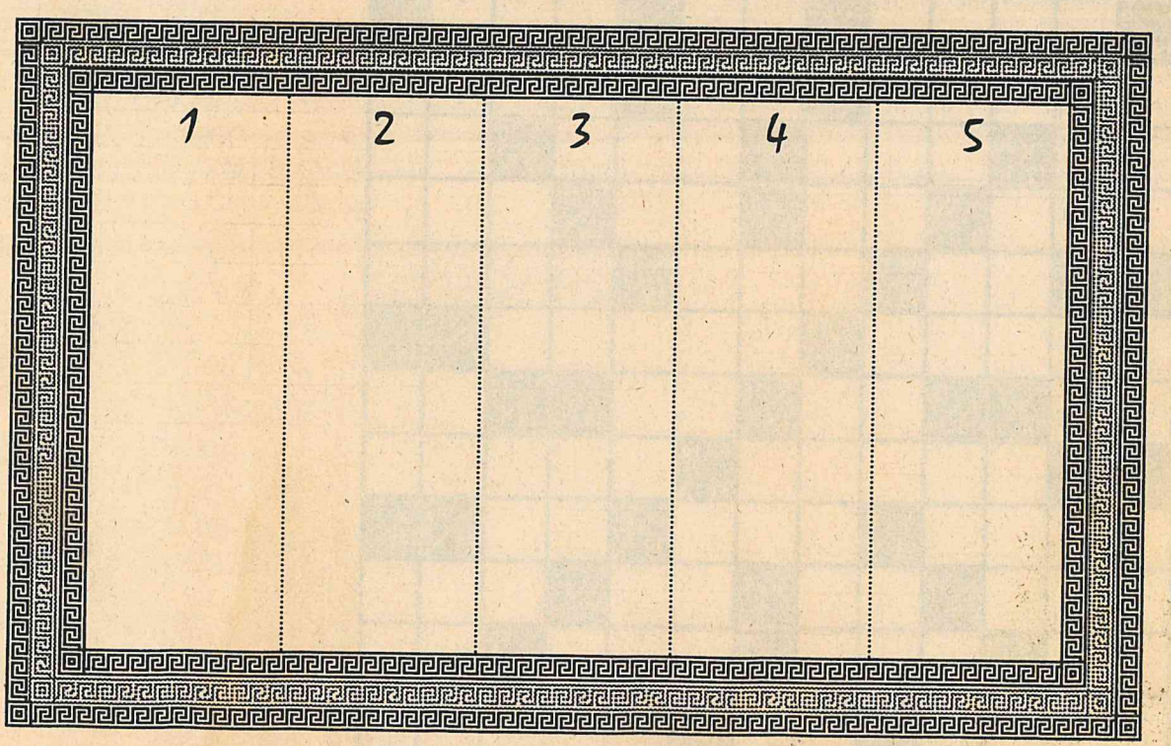
by Mary Marks Cezus

The world famous, much renowned modern artist Sultana recently unveiled her latest masterpiece, a 25-foot wide mural consisting of five separate panels, each honoring her interpretation of modern goddesses. No two of the goddesses in the painting have the same name, nor do any two share the same title. Each goddess is also represented by her own holy symbol. From the clues below, can you determine each goddess's name, title, and symbol, and place each in her correct panel of the mural?

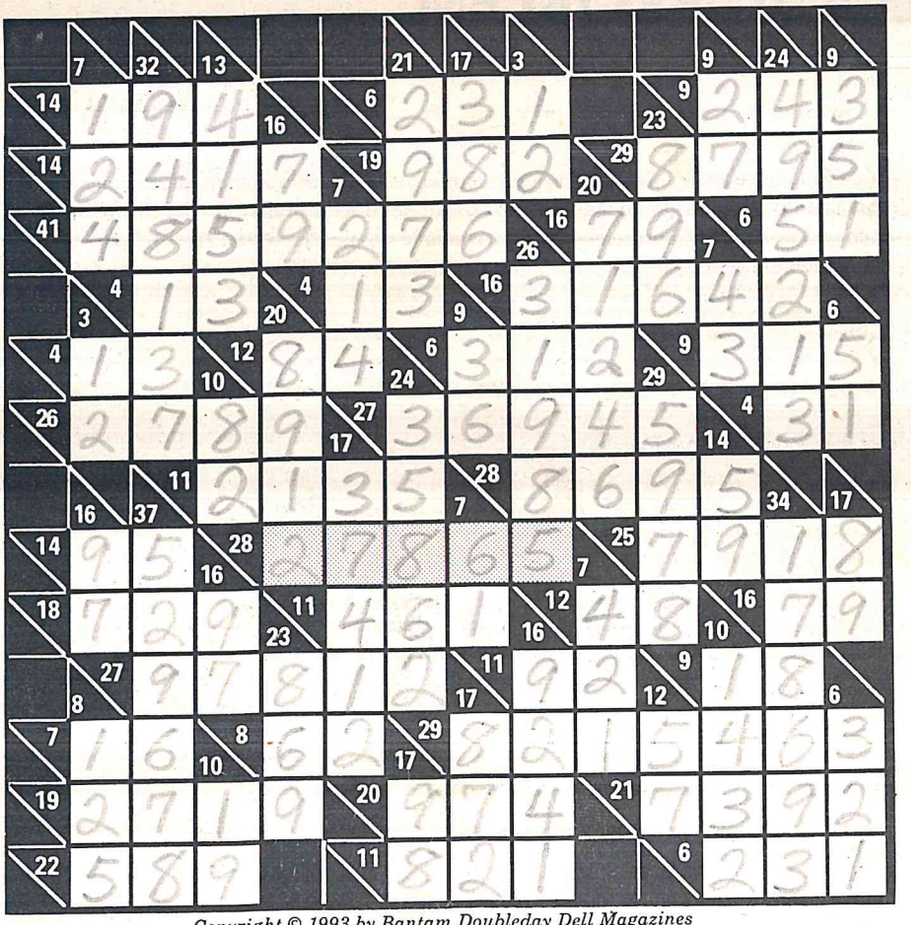
1. Wornom is to the right of the Goddess of Leisure.
2. The Goddess of Television (who is not Daxios) doesn't use the volcano as a symbol.
3. Chikwan is in the next panel to the right of the Goddess of Air Travel.
4. The goddess whose symbol is the palm frond is directly between the Goddess of Video Games and Noohi.
5. The goddess whose symbol is the monkey is directly between Pavola and the Goddess of Sports.
6. The Goddess of Television is at one end of Sultana's mural and the goddess whose symbol is a soaring eagle is in the panel at the opposite end.
7. The goddess whose symbol is the waterfall is to the left of Noohi.

Solution is on page 59.

The elaborate frame of Sultana's mural is shown below. Fill in each goddess's name, title, and symbol as you determine each one's position in the painting.



CROSS SUMS



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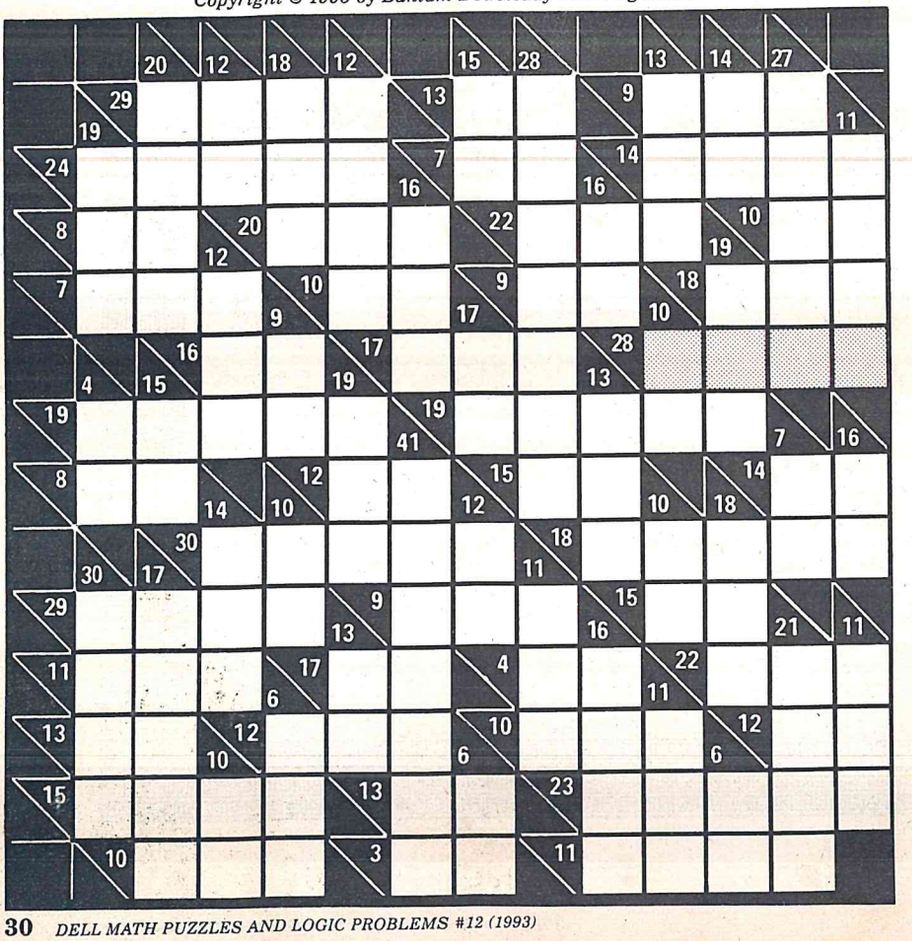
NUMBER 9

Directions for solving are on page 10. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

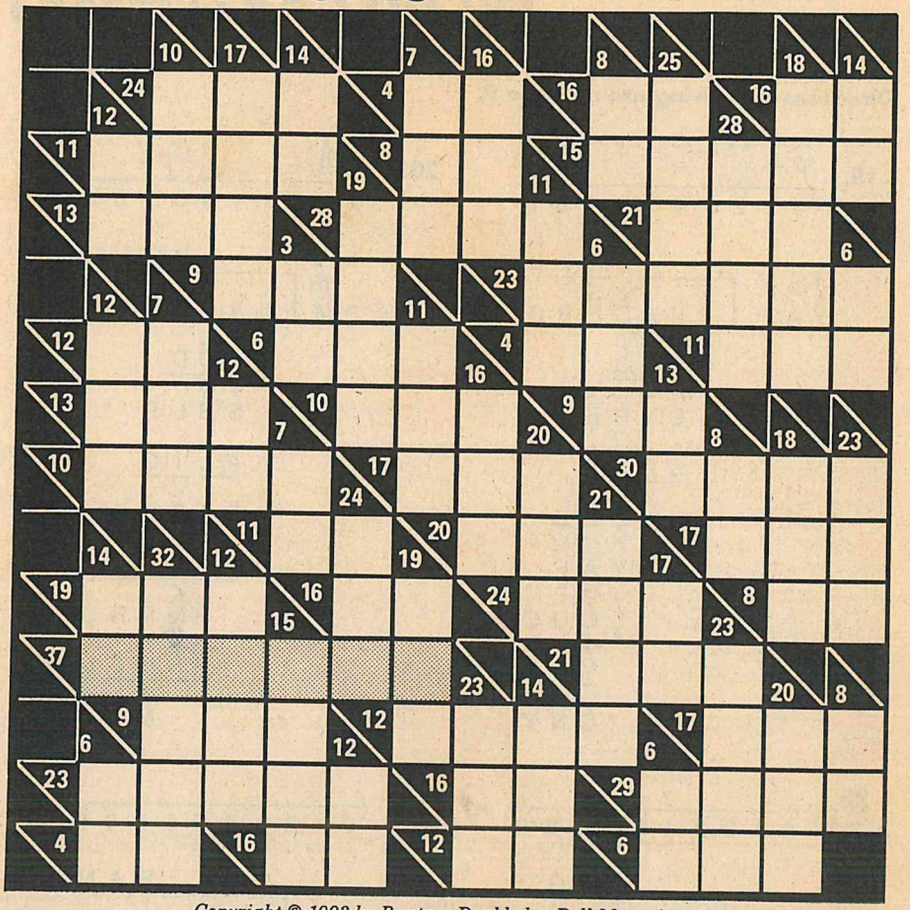
Solutions are on page 56.



NUMBER 10

CROSS SUMS

NUMBER 11



Solutions are on page 57.

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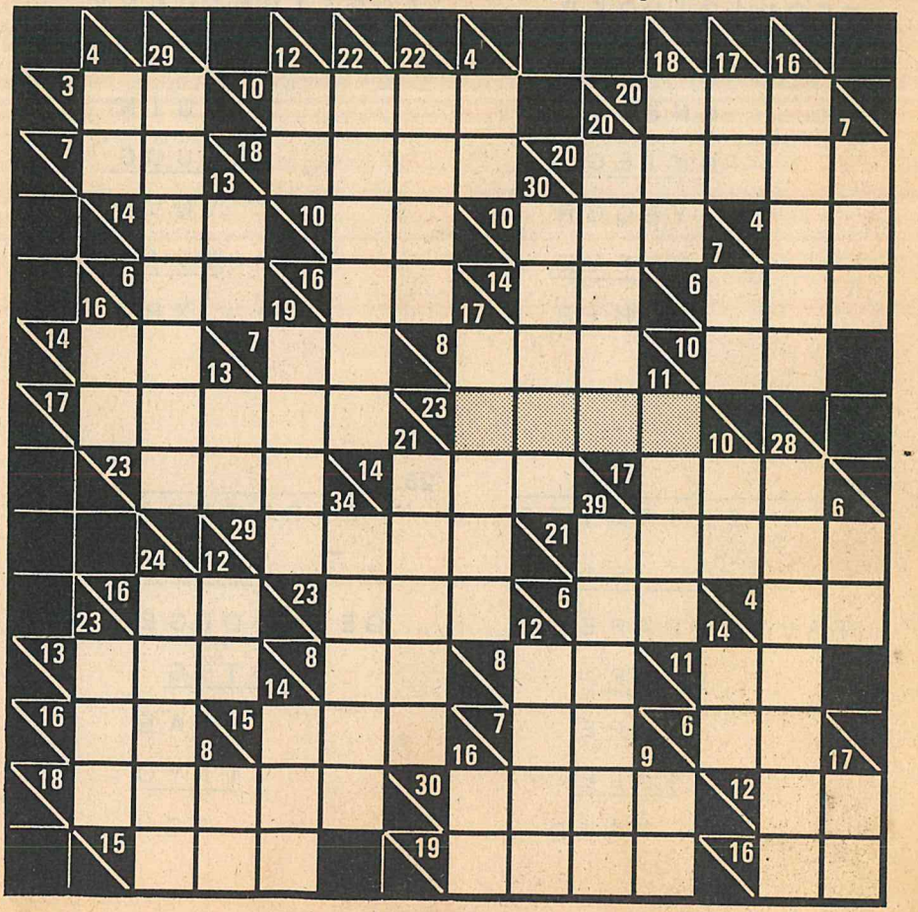
NUMBER 12



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WORD ARITHMETIC

Directions for solving are on page 9.

Solutions are on page 63.

19.

0 1 2 3 4 5 6 7 8 9

```
          P A L L
      ---------------
Y A P | P L A C E B O
        O N N C
        ---------
          C Y B E
          C O Y B
          ---------
            L L E B
            Y A P
            -------
            L O U O
              Y A P
              -----
              O N Y
```

20.

0 1 2 3 4 5 6 7 8 9

```
          D O L L
      ---------------
R E A M | L A B O R E D
        I I D D
        -------
          S S L R
          A L I O
          -------
            R I B E E
            R S D L L
            ---------
              R M R R D
              R S D L L
              ---------
                M O M
```

21.

0 1 2 3 4 5 6 7 8 9

```
          T R I O
      ---------------
L I P | R E S T O R E
        R T S T
        -------
          R S S O
          O I I R
          -------
            T T Y R
            T O I I
            -------
            O R L E
            P E S O
            -------
              V L I
```

22.

0 1 2 3 4 5 6 7 8 9

```
          E R G
      ---------------
N E O N | R I N G E R
        B Y I H
        -------
          N N B R E
          N Y I E O
          ---------
            Y E G G R
            Y Y R Y M
            ---------
              Y H I R
```

23.

0 1 2 3 4 5 6 7 8 9

```
          R A N
      ---------------
A U R A | U N F U N N Y
        U I O F A
        -------
          V R U I N
          R A U O O
          ---------
            V N V U Y
            V V I I X
            ---------
              X R O I
```

24.

0 1 2 3 4 5 6 7 8 9

```
          R O I L
      ---------------
O L D | M A R L O N
        O L D
        -------
          N N I L
          A M A B
          -------
            D O L O
            D B L L
            -------
              D M I N
              D F I A
              -------
                N B R
```

25.

0 1 2 3 4 5 6 7 8 9

```
          R I P
      ---------------
T A L E | D R A P E D
        L O O P
        -------
          T G P E
          T A L E
          -------
            R R P D
```

26.

0 1 2 3 4 5 6 7 8 9

```
          G O
      ---------------
G E T | D O D G E
        D T I G
        -------
          L L A E
          L N Y O
          -------
            T O N
```

27.

0 1 2 3 4 5 6 7 8 9

```
          A X
      ---------------
I O T A | H E L I X
        I O T A
        -------
          I B X A X
          I H H E X
          ---------
            I L H M
```

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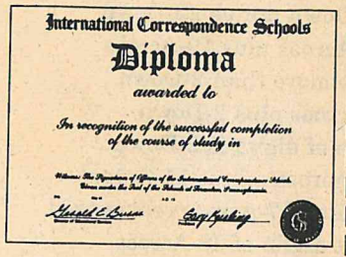

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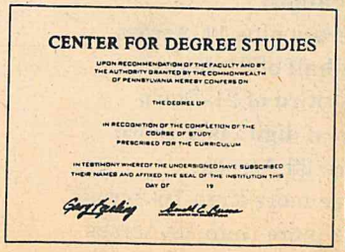

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- ☐ Child Day Care
- ☐ Legal Assistant
- ☐ Photography
- ☐ Journalism/Short Story Writing
- ☐ Florist
- ☐ Teacher Aide
- ☐ Home Inspector
- ☐ Medical Transcriptionist
- ☐ Real Estate Appraiser

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ADDRESS_____ APT. #_____

CITY/STATE_____ ZIP_____

PHONE ( )_____

CRYPTIC MATH

Each of the nine letters stands for one of the numbers one through nine, but no two letters stand for the same number. Using the clues, can you deduce the number represented by each letter? **Solution is on page 62.**

A	B	C
D	E	F
G	H	J

1. In one row of three numbers reading across, the middle number is evenly divisible by the two outside numbers, neither of which is 1.
2. B + 1 = H
3. F is an even number.
4. D, C, and F are consecutive numbers in ascending order (F is one more than C, which is one more than D).
5. G + 4 = J; G is not 1

FIGURE LOGIC 6

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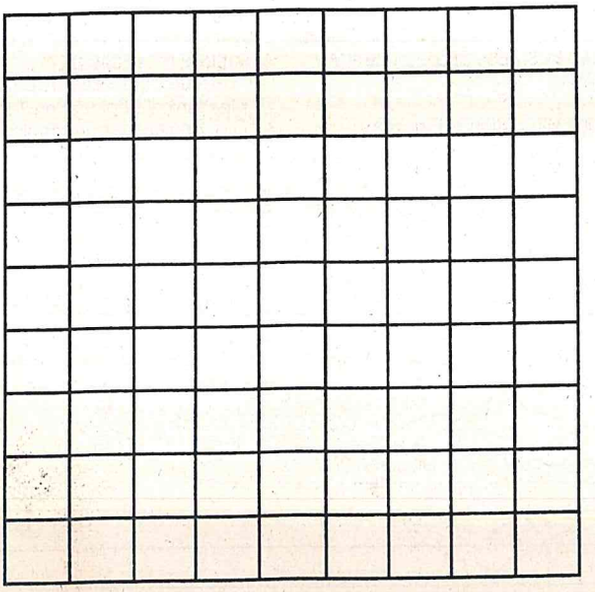
Directions for solving Figure Logics are on page 12. This puzzle is a diagramless — you will have to enter the black squares as well as the numbers into the diagram as you solve. Remember that the diagram is symmetrical from the top-left corner to the bottom-right corner so, when you decide the location of one black square, you can enter its counterpart. If you need help starting this puzzle, a starting help is given on page 63.

ACROSS

1. One-third of 23-Down
3. One-third of 12-Across
6. 16-Across times 23-Down
7. Digits of 1-Down rearranged
9. Two more than 26-Down
10. 1-Across times 9-Across
11. One less than 10-Down
12. One-third of 3-Down
14. 27-Across plus 30-Down
16. One less than 27-Across
17. Five more than 19-Across
19. 22-Down minus 14-Across
21. One-half of 1-Down
23. 2-Down plus 29-Down
25. 1-Across times 10-Down
27. One-third of 4-Down
28. Twice 1-Down
30. 1-Across times 32-Across
31. 5-Down minus 4-Down
32. Two more than 17-Across



DOWN

1. 12-Across times 8-Down
2. Two more than 1-Across
3. One-third of 21-Across
4. 14-Across minus 1-Across
5. 3-Across minus 30-Down
6. 24-Down minus 22-Down
7. 17-Across plus 19-Across
8. Five more than 2-Down
10. 9-Across plus 2-Down
13. Sum of digits is 2-Down
15. 10-Across minus 11-Across
18. Digits of 7-Across rearranged
20. Last digits of 28-Across rearranged
21. 1-Across plus 11-Across
22. One-half of 31-Across
23. One-third of 21-Down
24. Sum of digits is 8-Down
26. Twice 23-Across
29. Three more than 16-Across
30. Four more than 32-Across

Solution is on page 58

LOGIC PROBLEM

9. ~~THE LESSONS OF HISTORY~~ Vanna and Her Sisters!

by David Champlin

Jana Lerner and her three sisters are all taking adult education courses at the local university. Since all four classes meet on Thursday nights, the four Lerners drive in together. They are in the car together for only twenty minutes, but the Lerner sisters can chat. Usually they discuss class, such as the fact that each of the four is taking a history class, but none are taking a class together. Each studies a different area of the world's history, and, since the four classes meet at the same time, each has a different professor. Three of the four classes' course numbers are: History 402, History 451, and History 499. From the clues below, can you determine each sister's course number and title, as well as the professor who teaches it?

1. No Lerner sister's first name begins with the same letter as her professor's last name.
2. The course number for the class Anna is taking (which isn't "China — The Land of the Dynasty") is higher than the course number for Professor Jordan's class, which is higher than the course number for "Russia — The World of Tsars."
3. The course number for the class Vanna is taking is lower than the number for "England and the Foundations of the Parliamentary System," which is lower than the number for Professor Hidalgo's course.
4. The four sisters are: Hannah, the one taking "China — The Land of the Dynasty," the one in Professor Vale's class, and the one enrolled in History 427.
5. Neither Professor Akino nor Professor Hidalgo teaches "Egypt — Land of the Pharaohs."

Solution is on page 60.

See page 6 for instructions for using standard charts.

	Akino	Hidalgo	Jordan	Vale	China	Egypt	England	Russia	402	427	451	499
Anna												
Hannah												
Jana												
Vanna												
402												
427												
451												
499												
China												
Egypt												
England												
Russia												

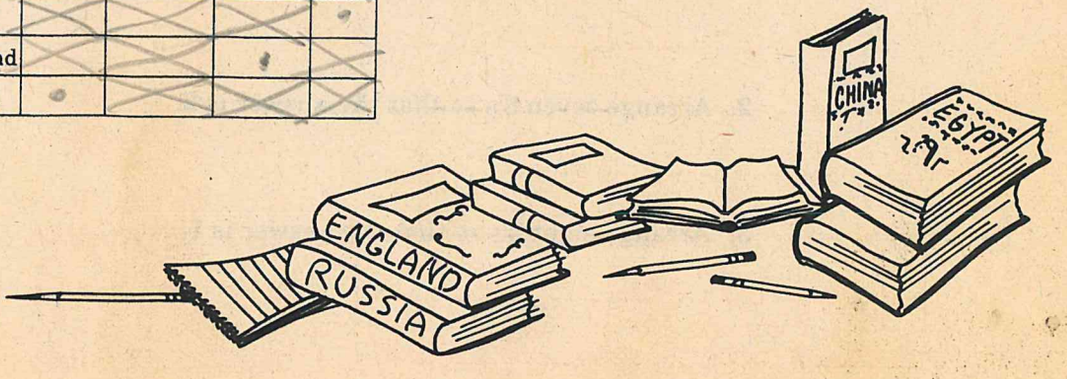


FIGURE LOGIC 7

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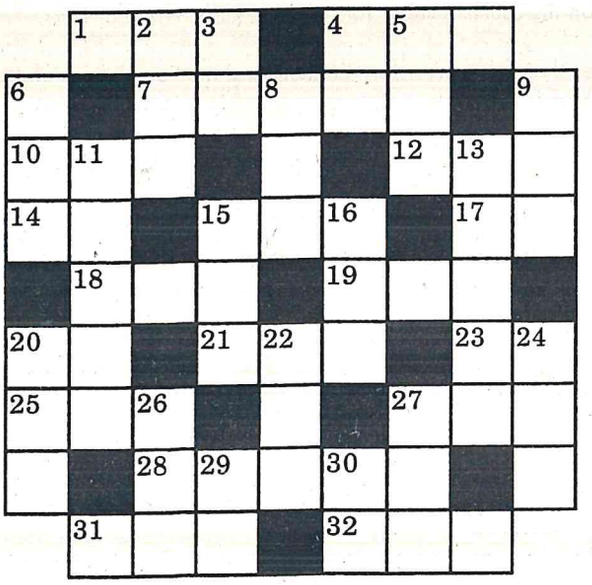
Directions for solving Figure Logics are on page 12.
If you need help starting this puzzle, a starting number is given on page 63.

ACROSS

1. Consecutive digits rearranged
4. 17-Across plus 22-Down
7. One-third of 28-Across
10. 15-Across plus 3-Down
12. First digits of 11-Down rearranged
14. 4-Down plus 29-Down
15. Three times 20-Across
17. Twice 23-Across
18. Last digits of 11-Down
19. One-half of 21-Across
20. Consecutive digits, in some order
21. Different multiples of three
23. One-third of 4-Down
25. 9-Down plus 16-Down
27. First digits of 7-Across rearranged
28. 14-Across times 21-Across
31. Digits of 26-Down rearranged
32. Digits of 6-Down rearranged

DOWN

2. Last digits of 7-Across rearranged
3. Consecutive digits, in some order
4. One-half of 3-Down
5. First digits of 13-Down
6. 1-Across minus 19-Across
8. Sum of digits is 23-Across
9. 27-Down plus 29-Down
11. Digits of 28-Across rearranged
13. 25-Across plus 11-Down
15. Square of 23-Across
16. Consecutive digits rearranged
20. Digits of 15-Down rearranged
22. Consecutive odd digits rearranged
24. Digits of 10-Across rearranged
26. Two-thirds of 6-Down
27. One-half of 5-Down
29. Twice 17-Across
30. 21-Across divided by 23-Across



Solution is on page 58

MINUTE MATH

You have exactly 9 minutes to come up with answers to these three problems, so check your watch and start thinking! Warning: These problems are not as simple as they look.

Our answers are on page 60.

1. Arrange nine 3's so that the answer is 20.

2. Arrange seven 8's so that the answer is 2.

3. Arrange eight 2's so that the answer is 1.

BINGO PLAYS 2

See page 16 for solving directions and Bingo Plays 1.

1. The number one does not appear on the card as a single-digit number, nor does it appear in row A, square PO, LB, LI, YB, YO, SB, SI, or SO, or in the **winning combination**.
2. The number two does not appear in row L, column B, or square PI, PN, YI, YG, YO, or SN.
3. The number three does not appear in row S, column G or O, or square PB or AI.
4. The number four does not appear in row P or L, column G or O, or square AB, YN, or SB.
5. The number five does not appear on the card as a single-digit number, nor does it appear in row A or column I, N, or O.
6. The number six does not appear in row P or S, column B, I, or N, or square LG or YG.
7. The number seven does not appear in row A, column N, or square PB, LG, LO, YO, or SB.
8. The number eight does not appear on the card.
9. The number nine does not appear in row P or A, column G or O, or square SI.
10. Zero does not appear in row Y, column B or N, or square PO, LG, AI, SI, or SG.
11. The number 66 is the only double-number combination on the card.

	B 1-15	I 16-30	N 31-45	G 46-60	O 61-75	
P						P
L						L
A			FREE			A
Y						Y
S						S
	B	I	N	G	O	

Solution is on page 58

CROSSMATH 2

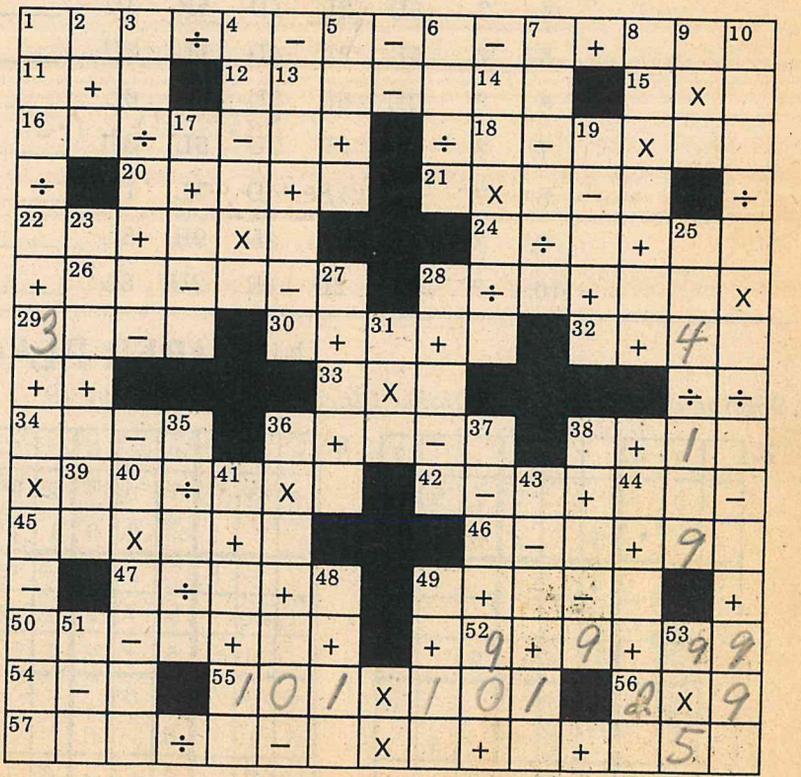
See page 26 for solving directions and Crossmath 1.

ACROSS

1. 349
11. 14
12. 220
15. 36
16. 7
18. 147
20. 5
21. 15
22. 120
24. 82
26. 18
28. 55
29. 29
30. 19
32. 54
33. 16
34. 34
36. 4
38. 17
39. 24
42. 75
45. 53
46. 93
47. 15
49. 11
50. 34
52. 117
54. 2
55. 10,201
56. 18
57. 956

DOWN

1. 111
2. 4
3. 17
4. 128
5. 92
6. 13
7. 29
8. 209
9. 12
10. 9,989
13. 58
14. 32
17. 15
19. 6
23. 330
25. 6
27. 13
28. 5
31. 15
35. 2
36. 87
37. 92
38. 1
40. 4
41. 19
43. 16
44. 33
48. 26
49. 23
51. 1
53. 45



Solution is on page 58

FOLLOW THE LEADER

In this puzzle, you are to find ten everyday 6-letter words that are hidden in the diagram of letters below. The letter-number combinations direct you how to spell out the 6-letter words you are to find. The "?" indicates the first letter of each word. In order to narrow your options for the first "?" letter, pick any letter in the part of the diagram that allows you to follow the first and, in some cases, second letter-number combination directions, and then follow the rest of the letter-number combinations until a word starts to form. If a word does not start to form, just pick a different letter for the first "?" letter.

Take for example, ? 7L 1D 3R 5U 2R. Since the first letter-number combination is 7L (seventh letter to the LEFT of the first "?" letter), the first "?" letter cannot be in the seven rows at the far left. Since the second letter-number combination is 1D (first letter DOWN from the letter arrived at from the first letter-number combination), the first "?" letter is not located in the first row at the bottom. By the process of elimination and some trial and error, we found the "?" in the example to be the S in the fifth row, eighth column. From then on, the rest was easy:

?	(after a struggle)	S
7L	the seventh letter to the LEFT of S	E
1D	the first letter DOWN from E	A
3R	the third letter to the RIGHT of A	L
5U	the fifth letter UP from L	E
2R	the second letter to the RIGHT of E	R

The word in the example is SEALER. Cross off each letter in the letter diagram as you use it, since each letter may be used only once. Every letter in the diagram will be used.

Answer is on page 63.

N	E	R	E	U	R	E	I	T	U
R	U	N	A	G	B	F	H	R	I
M	E	C	I	X	N	G	U	O	Y
W	V	L	G	C	U	O	P	H	A
E	T	I	H	O	F	A	S	T	Q
A	R	O	L	E	K	C	D	N	S

1. ? 3D 5L 2R 4U 1L _____
2. ? 1D 7R 4U 2L 5D _____
3. ? 4L 2U 4L 7R 4D _____
4. ? 3U 2L 1D 5R 3U _____
5. ? 5L 2L 4D 1L 3U _____
6. ? 2U 5R 3L 2U 6L _____
7. ? 4D 3R 2U 5L 3U _____
8. ? 3U 1R 4D 5L 1U _____
9. ? 2U 7L 4D 9R 5L _____
10. ? 5R 2D 1R 2U 8L _____

NUMBER PLACE

Solving directions and Number Places 1– 6 are on page 19.

Solutions are on page 58.

7.

	2	9		3				7
	3				7	1	9	
4			5		9	6		
5			9		2		3	
	9	4	3					1
1				7		9		2
	1	8	7					5
7				2	1		4	
		2		9		7	1	

8.

8	9	3	1	2	5	4	7	6
4	6	1	7	3	8	2	9	5
5	7	2	4	6	9	1	3	8
7	5	8	3	1	4	9	6	2
9	2	4	8	7	6	3	5	1
1	3	6	5	9	2	7	8	4
6	4	7	9	8	1	5	2	3
2	1	9	6	5	3	8	4	7
3	8	5	2	4	7	6	1	9

9.

8				9		5		7
	7	1	5				2	
		2	8		6			9
	2	8		6			7	
	9		4	1		2		
3					2	9		1
2			6		9		8	
	8				7	1		2
7		9		2			3	

LOGIC PROBLEM

10. HOMES, SWEET HOMES

by W. Lee Moss

Eight couples, whose children have grown up and left the nest or who have decided they couldn't resist the opportunity to be homeowners, have all recently purchased new homes in the new retirement community of Presidential Paradise. Each of the eight homes is different in color and street location. The eight lucky couples, who have been married a different number of years divisible by 5, purchased their homes in a different month in 1992. From the clues below, can you determine the month each couple purchased their house, how long they've been married (one couple has been married 45 years, another for 50 years), and the location and color of their house?

1. The Ansons, who bought the blue house, made their purchase three months later in the year than the couple who live on Washington Avenue, but three months earlier than the couple who have been married for 30 years, who bought the green house.

2. The Hathaways, who bought the tan house, do not live on Kennedy Drive; the couple who made the first purchase of the year have been married for 55 years; they are not the Engleharts, nor do they live on Monroe Way. (Note: There are five different couples mentioned in this clue.)

3. These five houses were purchased in consecutive order, though not in five consecutive months: the red house, the one on Jefferson Road, the home the Douglases purchased, the one selected by the couple married 20 years, and the July purchasers.

4. The couple whose home is on Van Buren Street have been married five years longer than the Gregsons, who have been married five years longer than the owners of the brown house.

5. The Carpenters made their purchase two months after the couple who live on Adams Court, who have been married fifteen years longer than the Baldwins (who bought their house in February).

6. The Faiths, who live on Madison, have been married five years longer than the couple who made the August purchase.

7. The yellow house was not purchased before the one chosen by the couple married 35 years; the house on Lincoln was purchased closer to the month that the house on Monroe was purchased than the house on Kennedy was purchased. (Note: There are five different houses mentioned in this clue.)

8. The couple married 25 years did not buy the gray house.

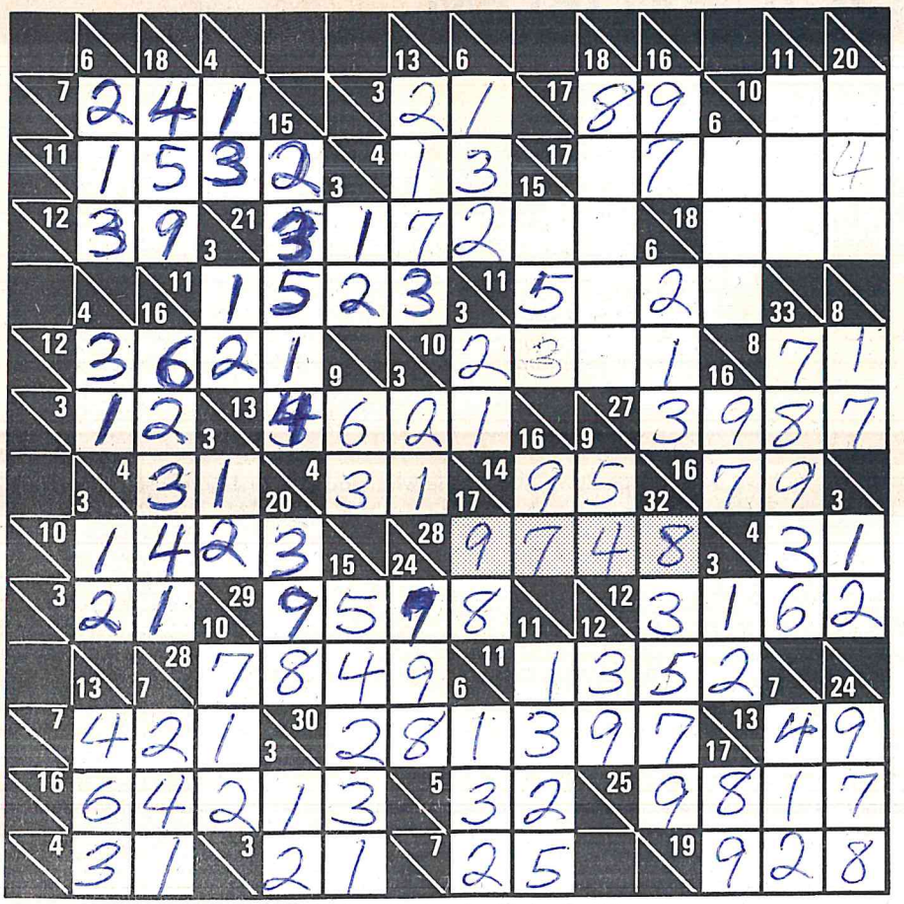
9. The orange house was purchased four months later in the year than the house purchased by the couple married 40 years.

10. The four months of the year when no purchase was made are equally spaced one from another.

Solution is on page 60.

This problem contains so many variables that a standard chart would not be readable. Instead, please use the space below for solving.

CROSS SUMS



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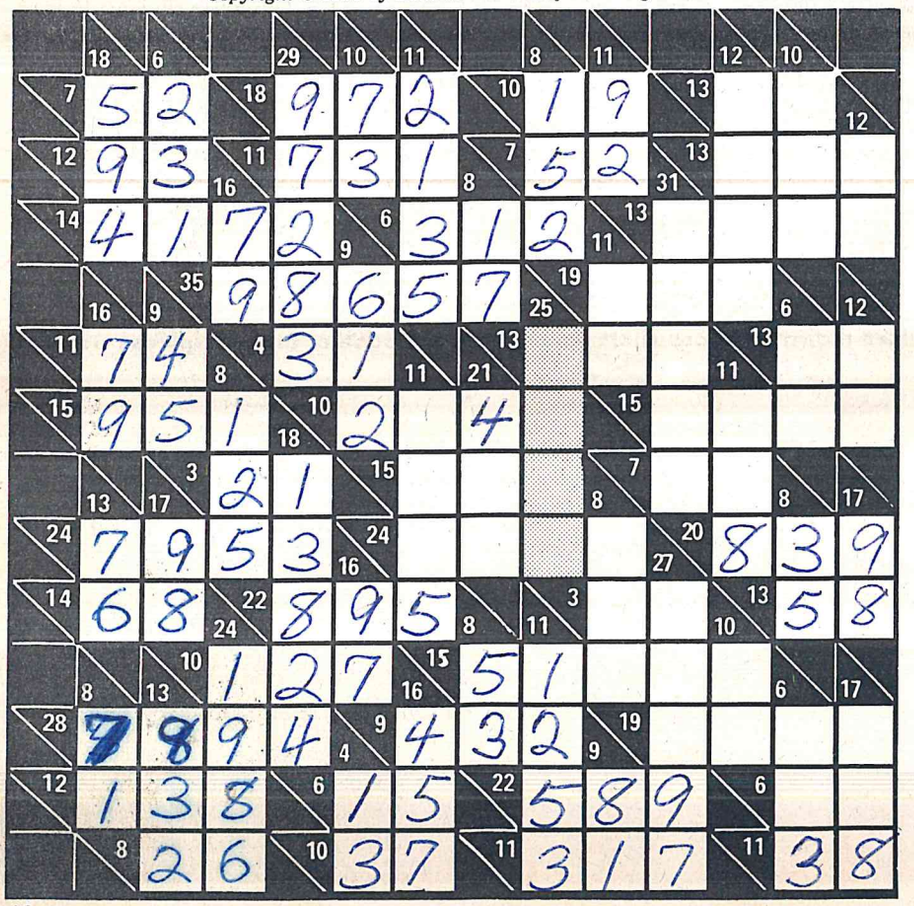
NUMBER 13

Directions for solving are on page 10. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

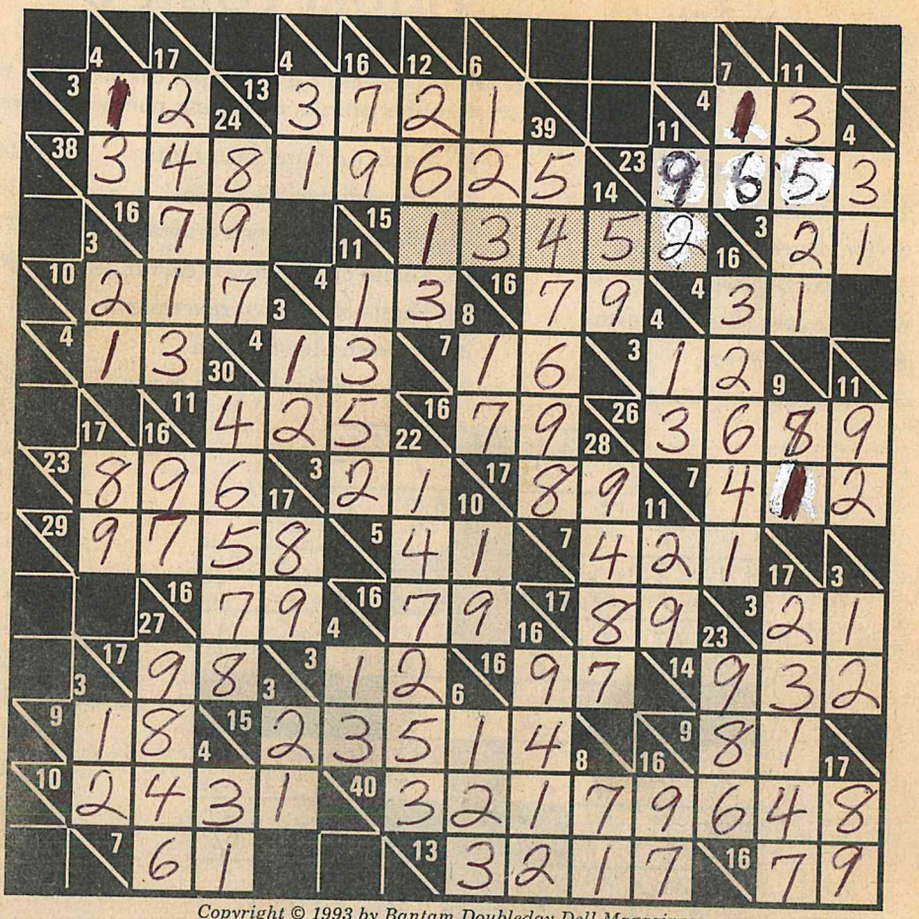
Solutions are on page 57.



NUMBER 14

CROSS SUMS

NUMBER 15



Solutions are on page 57.

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NUMBER 16

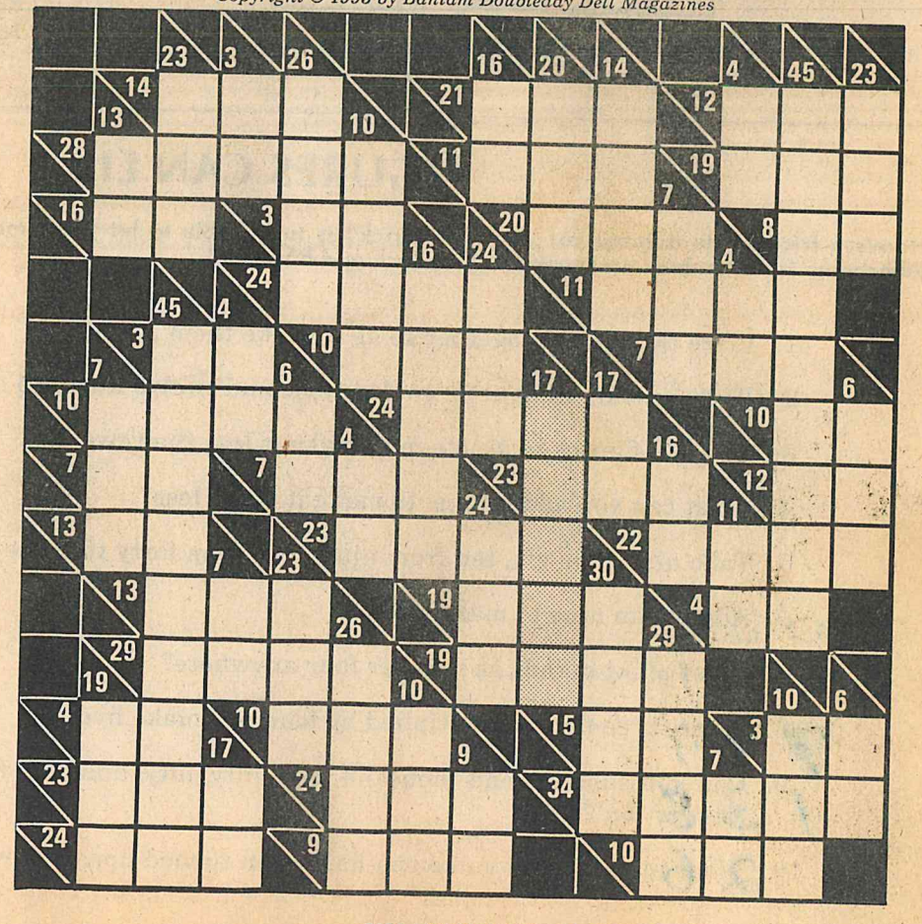

FIGURE LOGIC 8

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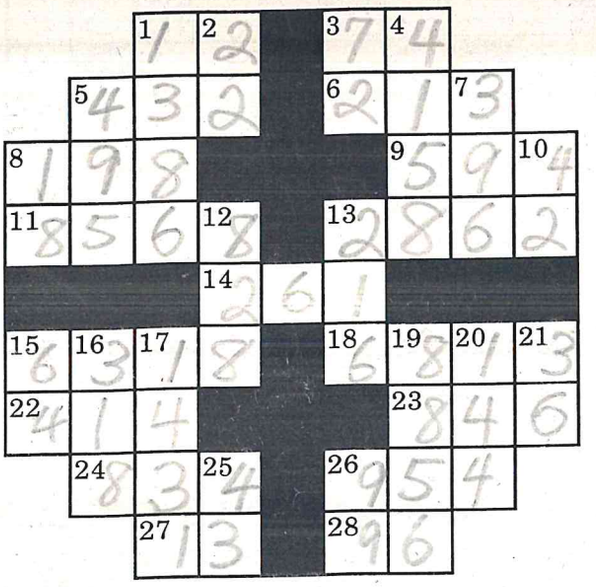
Directions for solving Figure Logics are on page 12.
If you need help starting this puzzle, a starting number is given on page 63.

ACROSS

1. One-third of 21-Down
3. Two more than 3-Down
5. Twice 13-Down
6. Three less than 13-Down
8. Twice 26-Down
9. Three times 8-Across
11. Same first and last digits
13. Three times 26-Across
14. Digits of 13-Down rearranged
15. Digits of 18-Across rearranged
18. Digits of 1-Down rearranged
22. 7-Down plus 8-Down
23. Three different even digits
24. 23-Across minus 1-Across
26. Digits of 9-Across rearranged
27. One more than 1-Across
28. Eight times 1-Across



DOWN

1. Seven times 8-Across
2. 7-Down divided by 8-Down
3. Four times 8-Down
4. Three times 1-Down
5. Digits of 26-Across rearranged
7. Different multiples of three
8. Last digits of 15-Across
10. One less than 25-Down
12. Twice 22-Across
13. 1-Across times 8-Down
15. 2-Down plus 10-Down
16. One-third of 26-Across
17. One-half of 13-Across
19. Digits of 11-Across rearranged
20. Digits of 22-Across rearranged
21. One-half of 3-Down
25. First digits of 5-Across
26. Three more than 28-Across

Solution is on page 58

FIGURES CAN LIE

Here's a tricky little number for you. The "trick" is to be able to let your imagination go in this mental gym. Remember, it's all in how you write it. Good luck and have fun!

Solutions are on page 60.

1. Place three sixes together so as to make them seven.
2. Write quickly in figures, twelve thousand twelve hundred and twelve dollars.
3. Add two figures to nineteen to make it less than twenty.
4. What can you add to nine to make it three less?
5. Take nine from six, ten from nine, fifty from forty to make six.
6. Add one to nine to make twenty.
7. What plant stands as number four anywhere?
8. What three figures multiplied by four will make five?
9. Can you subtract one thousand, one, fifty, fifty, and one, from a million to get the answer "on"?
10. What increases its value one-half when turned upside down?

WORD ARITHMETIC

Directions for solving are on page 9.

Solutions are on page 63.

28. _____
0 1 2 3 4 5 6 7 8 9

```
          A G E
G N A T | A M U S I N G
          T U U N A
          U G D T N
          U N M U G
            N U A E G
            N M T S E
              T T E N
```

29. _____
0 1 2 3 4 5 6 7 8 9

```
          W I N
I N N | C A S I N G
          C F W N
            A A T N
            A F I C
              A W C G
              A I E W
                C N T
```

30. _____
0 1 2 3 4 5 6 7 8 9

```
          E G G
I L E | W A T E R S
          W O R G
            R W I R
            E I I E
              R S L S
              E I I E
                L O G
```

31. _____
0 1 2 3 4 5 6 7 8 9

```
          T H E Y
A H A | N E P T U N E
          N T Y T
            T T O U
            N P O U
              H O O N
              T W E E
                E W Y E
                E E W T
                  N T T
```

32. COLDSHRIMP
0 1 2 3 4 5 6 7 8 9

```
            1684
          O H M S
6122 | 9700121
R O L L | P I C C O L O
        6122
        R O L L
        35781
        D H I M O
        30610
        D C R O C
          51712
          H O I O L
          48976
          S M P I R
            27361
            L I D R O
            24488
            L S S M M
              2873
              L M I D
```

33. _____
0 1 2 3 4 5 6 7 8 9

```
          S A D
C U P | S W O O P S
          T O A S
            A P S P
            H C H A
              D T S S
              P P C A
                P U A
```

34. _____
0 1 2 3 4 5 6 7 8 9

```
          T O P
Y E P | S E I Z E
          S Y H
            Z I Z
            Z P E
              N S E
              N I O
                N O
```

35. _____
0 1 2 3 4 5 6 7 8 9

```
          E K E
D U B | E V A D E D
          K A V B
            K O D E
            C A E B
              E I E D
              K A V B
                C C D
```

36. NOISYTRUCK
0 1 2 3 4 5 6 7 8 9

```
          3 7 0
          S U N
814 | 301653
C O Y | S N O R T S
        2442
        I Y Y I
        5745
        T U Y T
        5698
        T R K C
        1473
          Y U S
```

LOGIC PROBLEM

11. KNIGHTS AND KNAVES

by Diane C. Baldwin

Mike and four friends were playing the board game "Knights and Knaves." Each boy's knight was assigned a different color marker with which to go around the board. While taking turns making a perilous advance toward the castle, each landed on a "knave square" and was required to draw a dreaded penalty card. A penalty card told each player what mishap had befallen his knight and how many spaces back he should move his knight. Each boy pulled a different card for his knight; and, therefore, each knight had a different mishap befall him and a different number of spaces to move back (from one to five spaces). From the following clues, can you determine each boy's knight's marker (one was red), mishap (one landed in a swamp), and penalty, as well as the order in which the boys picked penalty cards?

1. Bob wasn't the one whose knight had a yellow marker.
2. The boy whose knight had a blue marker pulled a penalty that was more spaces than Jeff's knight's, but fewer than the first penalty drawn.
3. Together, the first three to draw had one space more of penalties than the one whose knight had the yellow marker and the one whose knight was beset by bandits combined. (Note: All five boys are mentioned here.)
4. The last three to draw penalties were, in no particular order, Tim, the boy whose knight had the blue marker, and the one whose knight was sent back two spaces.
5. Bob and the boy whose knight's mishap was having to do battle with a dull sword together went back as many spaces as the boy whose knight had an orange marker.
6. The boy whose knight had a horse pull up lame drew his card just after Jeff and just before the boy whose knight was sent back five spaces.
7. The penalty for meeting up with a dragon sent one knight back one more space than the boy whose knight had a green marker and one fewer than Ian's knight.

Solution is on page 60.

Use the illustration of the penalty card below to enter information about each boy's knight as you determine it.

KNIGHTS and KNAVES
penalty card

	boy's name	*marker color*	*mishap*	*penalty*
1st				
2nd				
3rd				
4th				
5th				

LOGIC PROBLEM

12. THE "BARCOMEISTER"

by Evelyn B. Rosenthal

Barco is a pretty popular game, but nowhere is it more popular than in Minten. Almost everyone in town plays barco at least once a week. The local newspaper has even taken to calling Minten "Barcotown." Every year, the Minten Barco Council holds a tournament; the overall winner is proclaimed the "town barcomeister" and receives quite an elaborate trophy. Minten proclaims only one winner, so a point system has been established for the tournament. There are five people (coincidentally, there are two married couples) left to play in the finals, which consists of five rubbers (rounds).Four people play each rubber, so each player must sit out one rubber. From the following clues, can you determine the full name of each finalist, how many points each gained or lost, and the rubber each sat out, as well as determine the Minten "barcomeister" of 1993? (Note: For the purpose of this Logic Problem, you may assume each husband and wife have the same last name.)

1. Chris's last name is not Young.
2. Ms. Wells, who is not Sandy, is not the one who ended with 160 points.
3. Pat didn't do as well as Lee, but did better than the two people who sat out during the second and third rubbers.
4. Mr. and Mrs. Zim together lost 240 points; Mr. Zim lost 20 points fewer than one of the Youngs gained.
5. The player who ended with 10 points was neither the one who sat out during the third rubber nor Ms. Wells, who did not sit out during the fifth rubber.
6. The one who sat out during the fourth rubber didn't do as well as Chris, Kit, and at least one other player.
7. Mr. Young did better than his wife.
8. Total points gained must balance total points lost.

Solution is on page 60.

Fill in the first and last names of each player in the tournament, along with the points each won or lost and the rubber each sat out as you determine it.

1993 MINTEN "BARCOMEISTER" TOURNAMENT

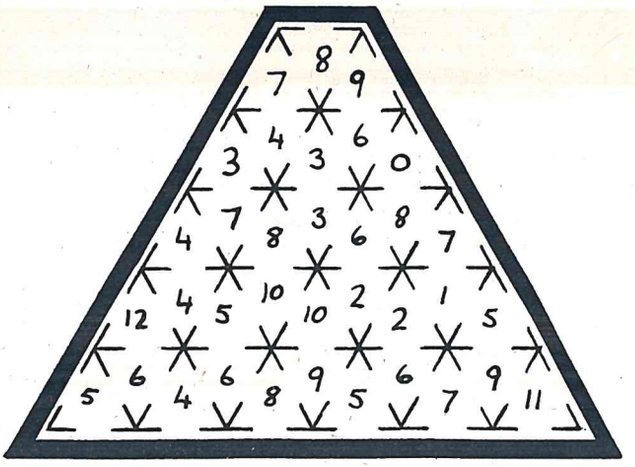
first name	last name	points won or lost	rubber sat out

TRIGONS

Trigon is a new brain teaser to test your powers of logic and deduction. Each diagram is made up of a series of open triangles with a number in the center; that number represents the sum of the digits you are to write into the spaces on the sides of the triangles. Where two triangles share a side, they share the number to be written into that side. When a triangle shares only one side with another triangle, the two noncontact sides will share the same number. For the first puzzle, all the combinations use only the digits 0 through 4; for the second puzzle, the combinations use the digits 0 through 6. We've listed all the possible combinations for every sum in the small chart accompanying each puzzle, so all you have to do is figure out which of those combinations belongs where (not as easy as it sounds!). The numbers in a combination can go in any order around their triangle, and each combination will be used exactly once. You can begin Trigon 1 by filling in 0-0-0 around the triangle with 0 at its center and 4-4-4 around the triangle with 12 at its center. It helps to look for large sums adjacent to small sums, as they will have fewer possibilities for common digits. If you're still stuck, turn to page 61 for more help.

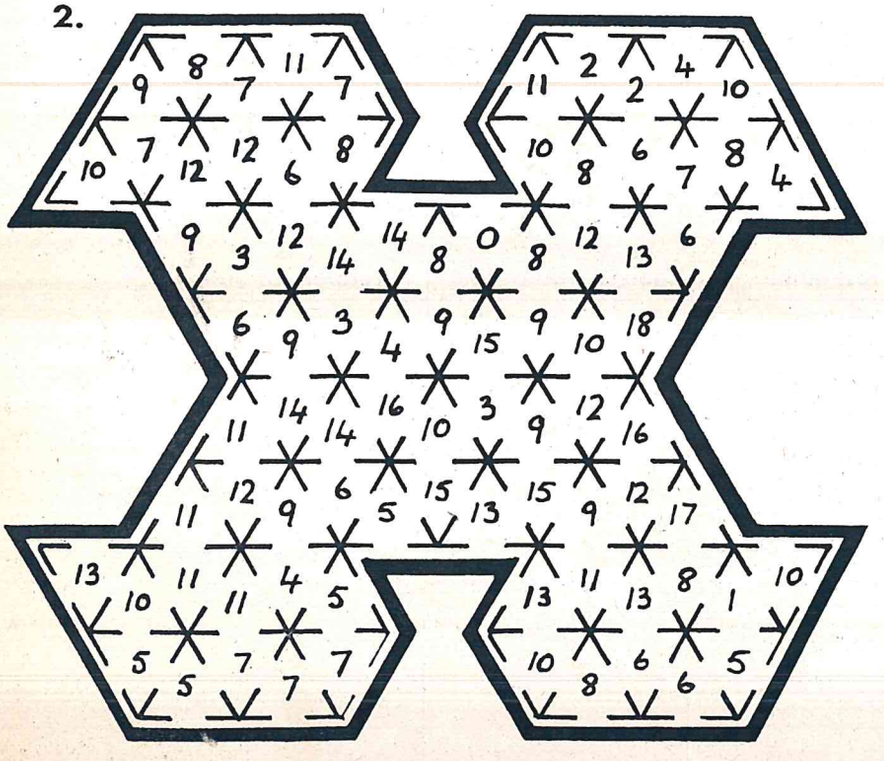
Solutions are on page 63.

1.



0	000				
1	001				
2	002	011			
3	003	012	111		
4	004	013	022	112	
5	014	023	113	122	
6	024	033	114	123	222
7	034	124	133	223	
8	044	134	224	233	
9	144	234	333		
10	244	334			
11	344				
12	444				

2.



0	000						
1	001						
2	002	011					
3	003	012	111				
4	004	013	022	112			
5	005	014	023	113	122		
6	006	015	024	033	114	123	222
7	016	025	034	115	124	133	223
8	026	035	044	116	125	134	224	233
9	036	045	126	135	144	225	234	333
10	046	055	136	145	226	235	244	334
11	056	146	155	236	245	335	344	
12	066	156	246	255	336	345	444	
13	166	256	346	355	445			
14	266	356	446	455				
15	366	456	555					
16	466	556						
17	566							
18	666							

FIGURE LOGIC 9

EXPERT

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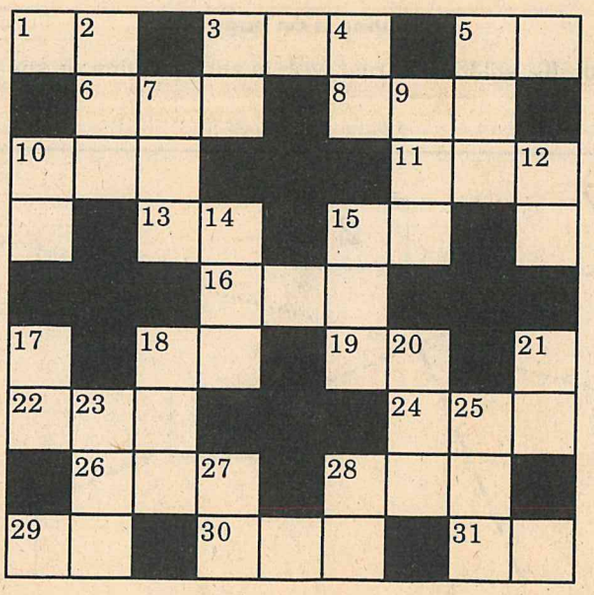
Complete instructions for solving Figure Logics are on page 12. In this puzzle, X is a set of three different digits, arranged differently each time X appears as a clue. Y is another set of three different digits, and Z is another set. If you need help starting this puzzle, a starting digit is on page 63.

ACROSS

1. One-half of 15-Across
3. Consecutive odd digits in some order
5. 3-Across minus 12-Down
6. X
8. Z
10. Digits of 2-Down reversed
11. X
13. Digits of 31-Across reversed
15. 10-Down plus 21-Down
16. Z
18. One-half of 13-Across
19. Digits of 28-Down reversed
22. Consecutive even digits in some order
24. X
26. Y
28. Y
29. Three times 3-Down
30. 31-Across times 3-Down
31. One-third of 18-Down

DOWN

2. 15-Across plus 19-Across
3. One-half of 17-Down
4. Twice 28-Down
5. X
7. Y
9. Z
10. First digits of 11-Across
12. Last digits of 6-Across
14. Z
15. X
17. One-ninth of 16-Across
18. Y
20. Y
21. One-half of 12-Down
23. Digits of 10-Across rearranged
25. X
27. One-half of 29-Across
28. One-ninth of 8-Across



Solution is on page 58

LOGIC PROBLEM

13. THE MOBILE

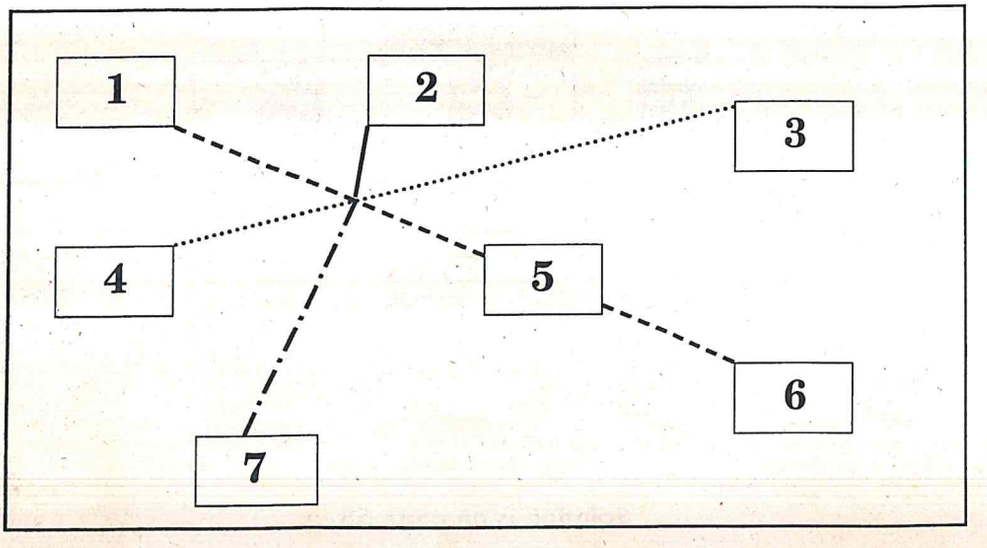
by Mary Marks Cezus

Artist Paulette Smock created a special gift for her newlywed friends, Ellen and Dean Ragnu — a mobile decorated with butterflies and wildflowers. Her wedding card to them was a drawing of the mobile and in each position she included not only a butterfly and a wildflower, but also a wish for the couple in their married life. No two positions had the same kind of butterfly, the same kind of wildflower, or the same wish. Using the illustration of the wedding card and the clues below, can you determine the kind of butterfly, wildflower, and wish for each position? (Note: The different connecting wires are represented by different patterns.)

1. The wish for freedom (which was not with the goldenrod) was in a position below the position of the thistle and to the left of the position of the Sleepy Orange butterfly (which was with neither the cinquefoil nor the daisy).
2. The Viceroy butterfly (which was not with the violet) was in a position which was below the wish for peace and to the left of the wish for wealth (which was not the wish with the Red Admiral butterfly).
3. The Zebra Swallowtail butterfly (which was in a position below and to the left of the wish for good jobs) was not in the same position as the wish for a good family life (which was below the daisy's position).
4. The wish for health (which was with neither the Red Admiral nor the Viceroy butterflies) was in a position which was below the yarrow (which was not with the wish for happiness).
5. The wish for happiness (which was not in position four) was with neither the Pearly Eye butterfly nor the butterfly which was shown with cinquefoil.
6. The Red Admiral butterfly (which was not with the wish for a good family life) was in a position which was to the right of the violet (which was not with the wish for freedom).
7. The Olympia Marblewing butterfly (which was in a position which was on the same connecting wire as the position for the cinquefoil) was not with the thistle (which was not with the wish for happiness).
8. The goldenrod was in a position which was on the same connecting wire as the position for the Sleepy Orange butterfly (which was with neither the wish for good jobs nor the wish for peace).
9. The Pearly Eye butterfly (which was in a position below the phlox) was not pictured with the violet (which was not with the wish for health).
10. The Spring Azure butterfly (which was not in position one) was not pictured with the cinquefoil (which was not with the wish for good jobs).

Solution is on page 61.

Fill in the butterfly, wildflower, and wish in each position as you determine it.



WORD ARITHMETIC

Directions for solving are on page 9.

Solutions are on page 63.

37.

0 1 2 3 4 5 6 7 8 9

```
        FRY
EYE | FILTER
      ORER
       RLSE
      ISEF
       YPIR
      TIEP
        RRF
```

38.

0 1 2 3 4 5 6 7 8 9

```
        EAR
NAPE | WOODEN
       NAPE
       PTTWE
       PEWSA
        ASPON
       PWPOR
        NDDA
```

39. FROSTYLAWN

0 1 2 3 4 5 6 7 8 9

```
          289
          OWN
1271 | 367943
ROAR | SLANTS
      2542
      OYTO
      11374
      RRSAT
      10168
      RFRLW
       12063
       ROFLS
       11439
       RRTSN
         624
         LOT
```

40.

0 1 2 3 4 5 6 7 8 9

```
        ERR
PUG | GRAMS
      AMU
       CMM
      IAI
       IGS
      IAI
        P
```

41. H

0 1 2 3 4 5 6 7 8 9

```
        SO
EON | SHORE
      IRYO
       JUSE
      JJEE
       IOH
```

42.

0 1 2 3 4 5 6 7 8 9

```
        ATE
GAR | FROSTS
      FTGT
       IAGT
      IOFA
       ELRS
      TEOT
        FSG
```

43. B

0 1 2 3 4 5 6 7 8 9

```
        SET
ERE | STORES
      AEAT
       ECUE
      TOIA
       TCTS
      UOUS
        TAB
```

44. P

0 1 2 3 4 5 6 7 8 9

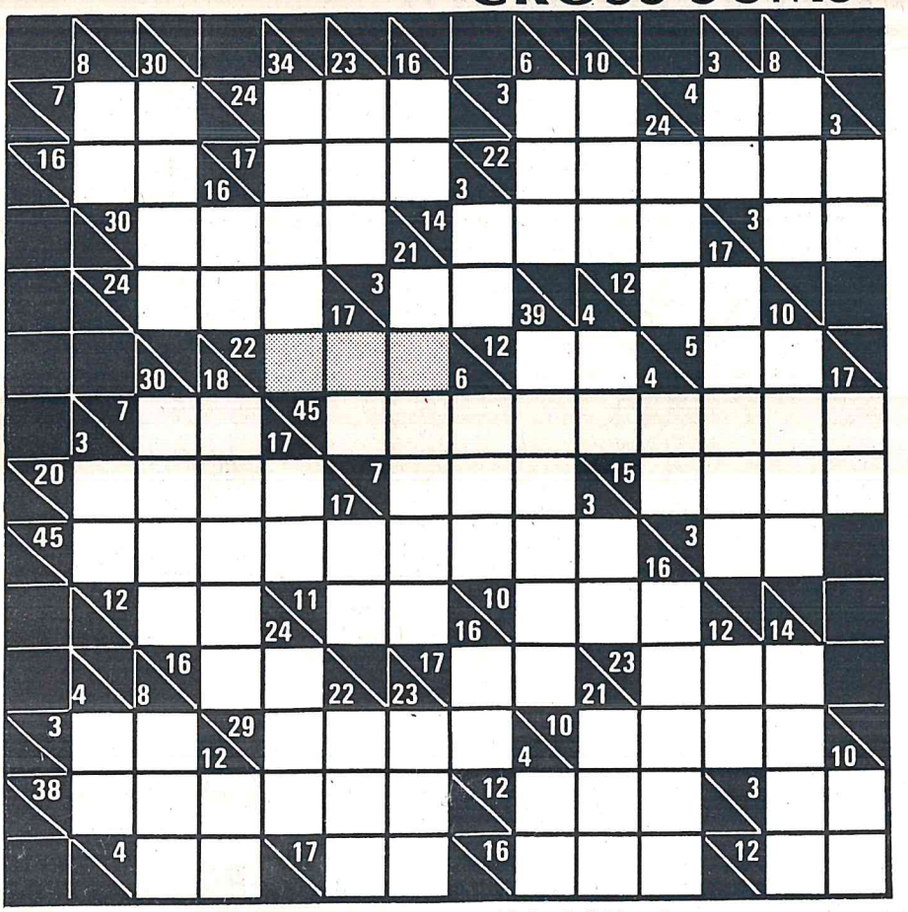
```
        IS
LEON | SNAIL
       AEEC
       LIOSL
      LLVVL
       EIP
```

45.

0 1 2 3 4 5 6 7 8 9

```
        IFFY
MOO | SIMPLE
      SIA
       APLE
      AISY
       MPL
```

CROSS SUMS



NUMBER 17

Directions for solving are on page 10. We have shaded one area in each diagram. If you need help starting a puzzle, the digit combination to go into its area is listed on page 63.

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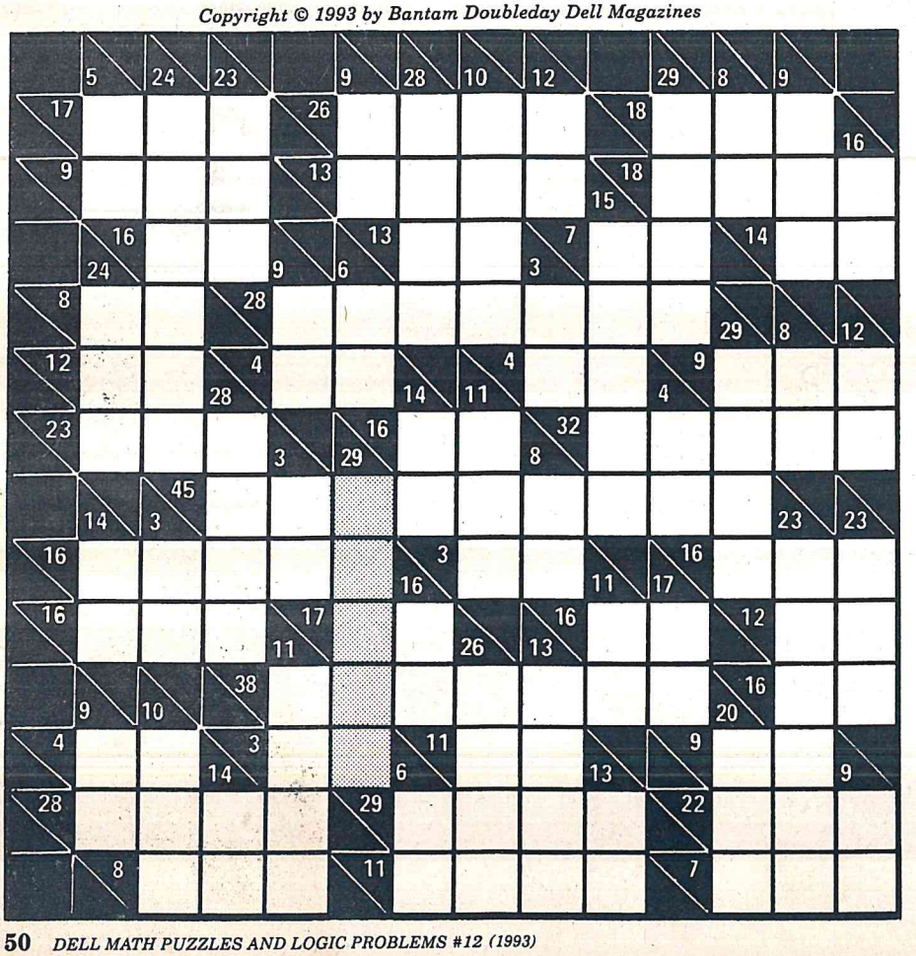
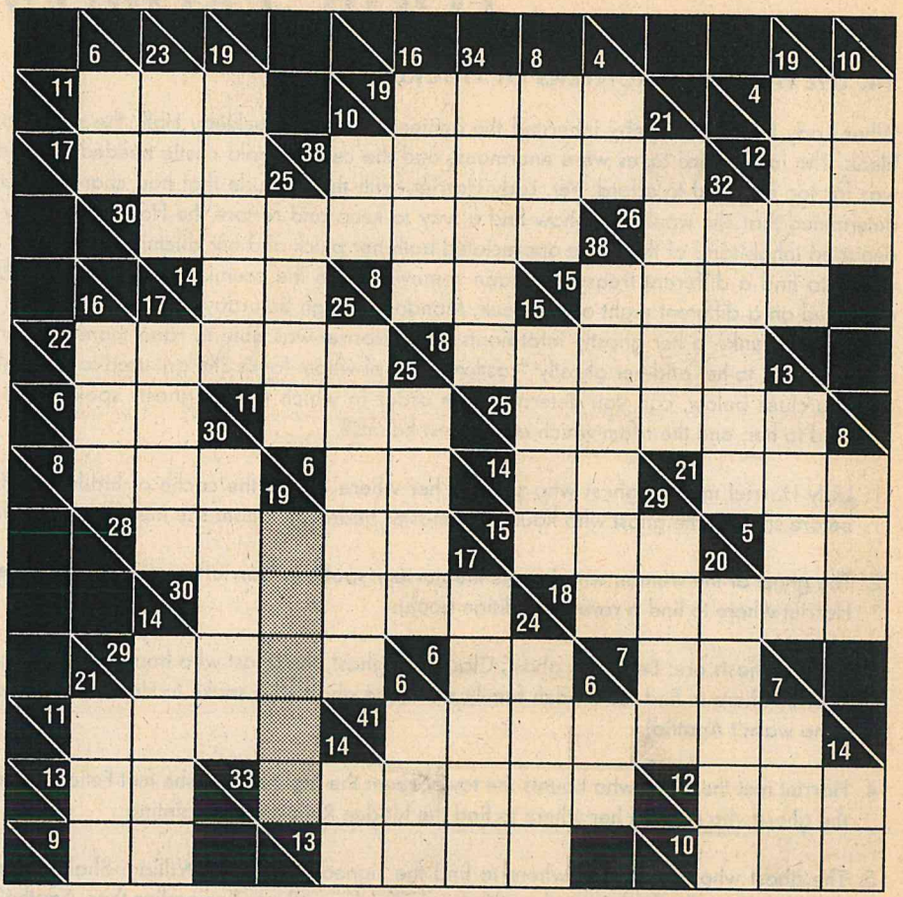
Solutions are on page 57.



NUMBER 18

CROSS SUMS

NUMBER 19



Solutions are on page 57.

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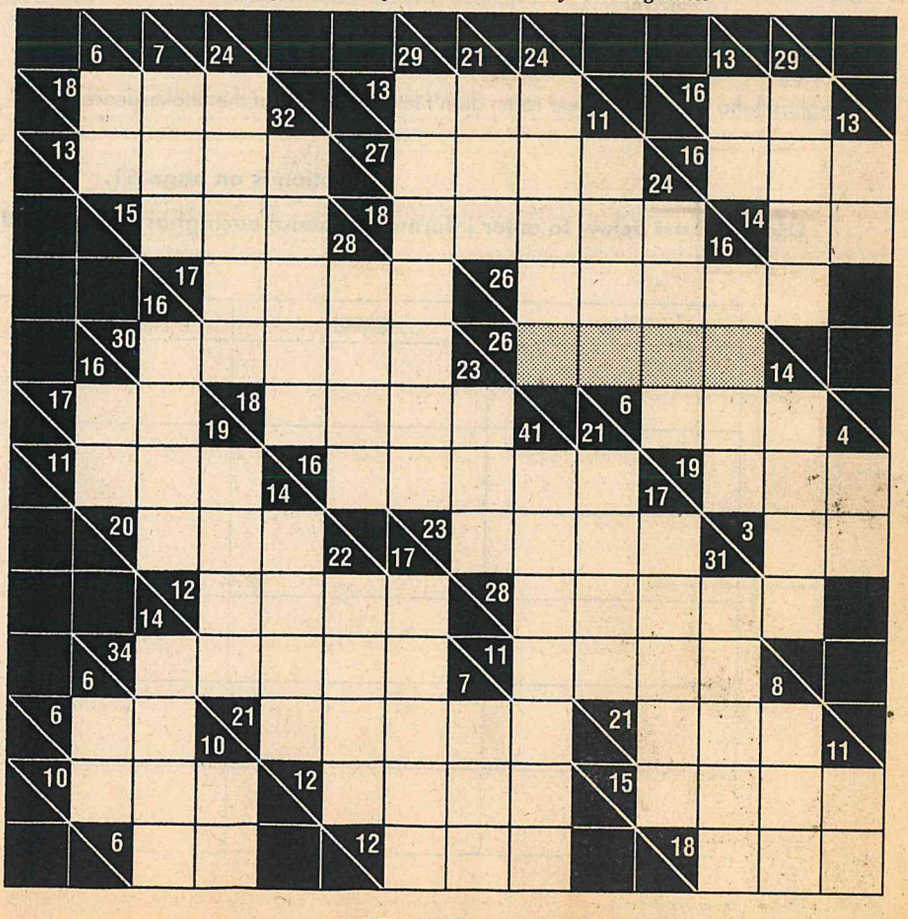
NUMBER 20



LOGIC PROBLEM

14. THE HELPFUL HAUNTERS OF HUCKLEBY HALL

by David Champlin

When Lady Harriet Huckleby inherited the ancient manor of Huckleby Hall, the prospects of keeping the estate intact seemed very bleak. The inheritance taxes were enormous, and the centuries-old castle needed many expensive repairs, which the family fortune was far too depleted to afford. Yet, Lady Harriet, with the fortitude that had characterized the Huckleby family for generations, was determined that she would somehow find a way to keep and restore the Hall. Fortunately for Lady Harriet, the resident ghosts of six departed inhabitants of the castle appreciated both her pluck and her dilemma, and each of these friendly ghosts appeared to tell her where to find a different treasure hidden somewhere on the premises (one told her about a buried chest of jewels). Each ghost appeared on a different night of the week, Monday through Saturday inclusive, and each ghost habitually haunts a different room of the castle. Thanks to her ghostly informants, Lady Harriet was able to raise more than enough money to keep the Hall in a manner pleasing both to her and her ghostly "castlemates," of whom (once she got used to them) she became very fond. From this information and the clues below, can you determine the order in which the six ghosts spoke to Lady Harriet, the treasure which each ghost revealed to her, and the room which each ghost haunts?

1. Lady Harriet met the ghost who showed her where to find the cache of hidden gold coins (which wasn't Eric's ghost) the night before she met the ghost who haunts the master bedroom, whom she met the night before she encountered Delia's ghost.

2. The ghost of the woman who haunts the nursery spoke to Harriet sometime before the ghost who haunts the library (who showed Harriet where to find a rare first-edition book).

3. The six ghosts are: Bertram's ghost, Clarence's ghost, the ghost who haunts the dining room, the ghost of the woman who showed Harriet where to find the hidden family silver, the ghost who spoke to Harriet on Thursday, and the ghost Harriet met on Saturday (who wasn't Agatha).

4. Harriet met the ghost who haunts the tower room the night before she met Felicia's ghost, whom she met two nights before she met the ghost who showed her where to find the hidden Renaissance painting.

5. The ghost who told Harriet where to find the signed letter from William Shakespeare spoke to her earlier in the week than the ghost of the man who haunts the entrance hall, who spoke to her earlier than Agatha's ghost.

6. Harriet wasn't visited by Agatha's ghost and Bertram's ghost on consecutive nights.

7. The ghost who haunts the tower room didn't tell Harriet about the Shakespeare letter.

Solution is on page 61.

Use the chart below to enter information about each ghost's room and treasure as you determine it.

day	ghost	treasure	room

LOGIC PROBLEM
CHALLENGER

15. ZELDA'S BIRDHOUSE

by Robert Nelson

Zelda Zipp has been collecting wooden birds for so long, she can't remember how she got started. Her collection now consists of twenty carvings, each by a different artist. To commemorate the twentieth acquisition, Zelda recently acquired a wall-mounted shadowbox to display them in; this unit has twenty compartments arranged in four shelves and five columns. From the following clues, can you match each bird (one is a junco) with its artist (three of the artists are Phoebe, Ms. Reed, and Mr. Gathers) and place it in its correct spot in the shadowbox?

1. On one shelf, all the artists are men; on another they are all women.
2. Displayed from left to right on one of the shelves are: Manny's bird, Mr. Holter's, a warbler, Sam's bird, and a tanager.
3. Displayed from top to bottom in one column are: a swallow, Bill's bird, Ms. Bixler's, and a lark.
4. Displayed in a diagonal line (up or down) from left to right are: Robin's bird, a quail, Don's bird, and Mr. Andrews' bird.
5. Nancy Sanger's and Oscar Nolan's birds are in different rows and columns; Oscar's bird is not in the same column as Vince's.
6. In one column, Ms. Kean's bird is somewhere above a finch and below a phoebe.
7. A cardinal is somewhere to the left of Mr. Laver's bird (on the same shelf) and somewhere below a kingfisher (in the same column).
8. One of the birds has the same name as the first name of its artist and another has its artist's last name.
9. Displayed from left to right on one of the shelves are; a pewee, Helen's bird, a chickadee, Ms. Finley's bird, and Alice's.
10. Displayed from top to bottom in one column are: Carla's bird, a flicker, a blue jay, and Kevin's bird.
11. Ms. Finch's bird is immediately above Al's and has a vireo on one side and Janice's bird on the other.
12. Displayed on a diagonal line (up or down) from left to right are: the bird done by George (who is not Mr. Holter), a nuthatch, Mr. Parson's bird, and Ms. Mason's bird.
13. On one shelf, Edna's bird is somewhere to the left of Ms. Jones's bird and somewhere to the right of an oriole.
14. In one column, Mr. Wren's bird is somewhere above Freda's and somewhere below Ms. Courtney's.
15. Lark's bird is immediately below Mr. Elkin's and has a thrush on one side and Mr. Tipton's bird on the other.
16. In one column, Ms. Orlando's bird is somewhere below a wren and somewhere above Mr. Drexler's bird.
17. On one shelf, Wilbur's bird (which is not a lark) is somewhere to the left of Vince's and somewhere to the right of a robin.

Solution is on page 62.

Write the artist's full name and type of bird in each space as you determine where each belongs.

	A	B	C	D	E
1					
2					
3					
4					

FIGURE LOGIC 10
CHALLENGER

by Linda Thistle

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Instructions for solving Figure Logics are on page 12.

If you need help starting this puzzle, a starting digit is on page 63.

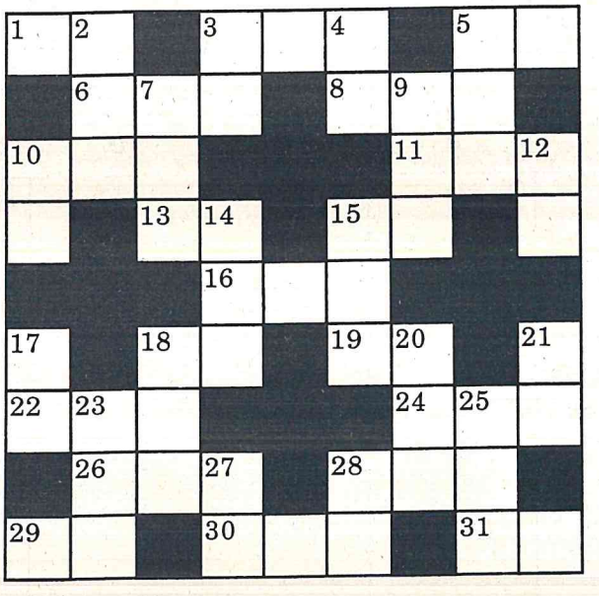
This year, Paula, who is known to have infinite patience with plants, grew petunia, pansy, and impatiens bedding plants for herself and four friends. Paula's pastime brings her peace and serenity while also making her one of the most popular people in her neighborhood. Each of the trays she used was entirely filled with plants; each tray contained the same number of plants. The plants for Penny were one-fourth of the total and filled exactly three trays. Pam wanted half as many plants as Penny; her total was only one-third of the total impatiens plants, perhaps because she wanted only two of the three varieties that Paula grew. However, Polly also wanted only two kinds of plants; but her total almost equals Pat's, whose plants require precisely two trays.

ACROSS

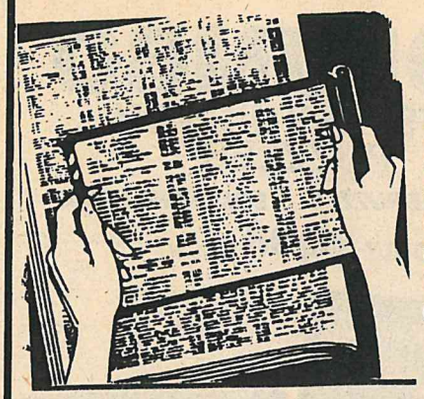
1. Penny's impatiens minus Pat's petunias
3. Total petunia and impatiens plants
5. Pat's pansies
6. Total plants for Penny
8. Total pansy and impatiens plants
10. Total plants
11. Two times total petunia plants
13. Polly's impatiens
15. Number of trays
16. Total petunia and pansy plants
18. Difference between Paula's pansies and her impatiens
19. Penny's pansies
22. Total plants for Paula
24. Total petunia plants
26. Three times total plants for Polly
28. Three times total petunia plants
29. Penny's petunias
30. Sum of Pam's and Pat's plants
31. Paula's petunias

DOWN

2. Total plants for Polly
3. Pat's petunias
4. Pam's petunias
5. Total pansy plants
7. Total plants for Pat
9. Sum of Penny's and Polly's plants
10. Polly's pansies
12. Penny's impatiens
14. Sum of Paula's pansies and Penny's petunias
15. Total plants for Pam
17. Pam's impatiens
18. Sum of Polly's pansies and Pam's impatiens
20. Paula's impatiens
21. Pat's impatiens
23. Sum of Paula's, Pam's, Pat's, and Penny's plants
25. Total impatiens plants
27. Two times Polly's impatiens
28. Number of plants per tray



Solution is on page 58



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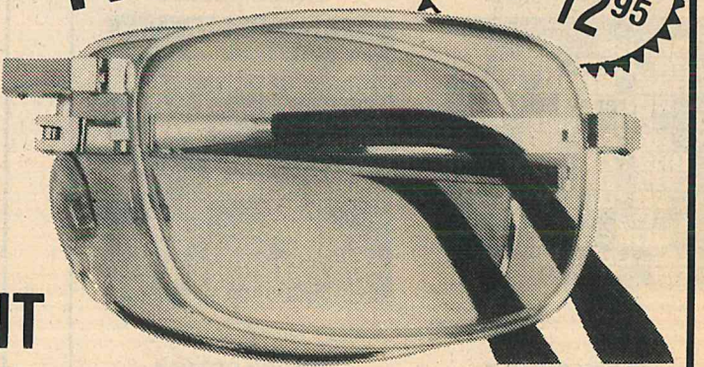

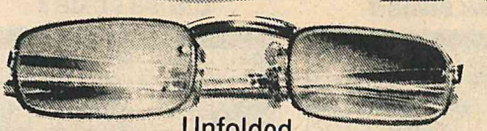

Unfolded

MAGNIFIES
2½X – 3X – 3½X – 4X

Space Age design – neat looking ... specially created to fold In/Half .. to fit in pocket, purse, glove box or carrying case. Don't strain your eyes to read fine print, road maps, thread needles, etc. These fantastic, low priced folding magnifying specs may be all may be all you need! Everything increases in size from 2½ times to 4 times depending on the strength you need. You get a stylish look at incredible low, low prices. Rich Gold Tone XL Sturdy Metal Frames with high impact resistant optical lenses fit both men and women. These truly attactive glasses are yours for as low as $12.95. Order by magnification strength.

30 DAY MONEY BACK GUARANTEE.

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QTY

Satisfaction Guaranteed or Money Back ! (less shipping & handling)

_____ 2½x Magnification Strength Only **$12.95** + $2 Shipping, Handling & Ins.

_____ 3X Magnification Strength Only **$13.95** + $2 Shipping, Handling & Ins.

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_____ 4X Magnification Strength Only **$15.95** + $2 Shipping, Handling & Ins.

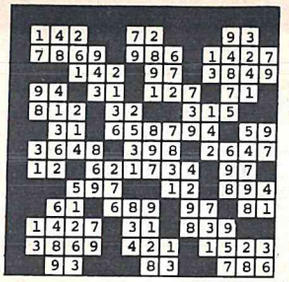
A convenient pocket case is available for an extra $1.00. Special Bonus! Order 2 or more pairs of glasses and deduct $2 from each pair.

Name _____

Address _____

City _____ State _____ Zip _____

CROSS SUMS 1



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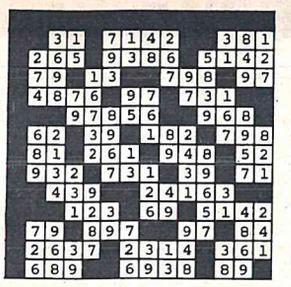

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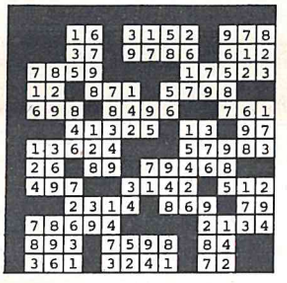

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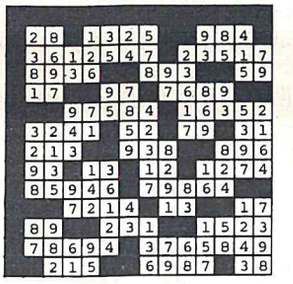

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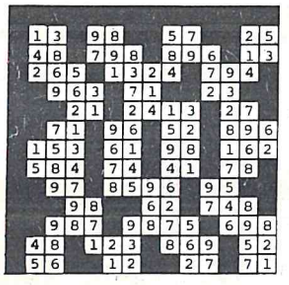

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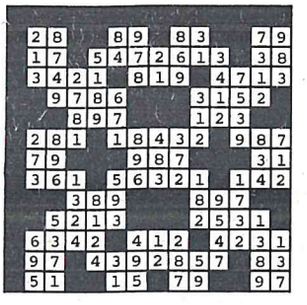

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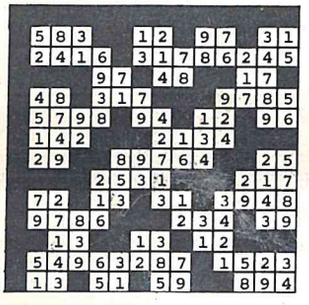

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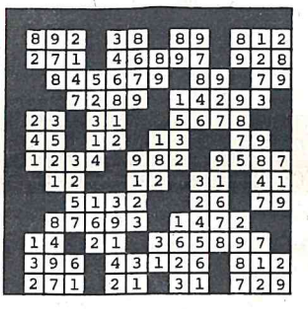

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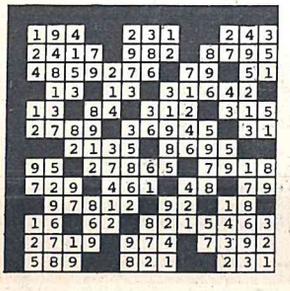

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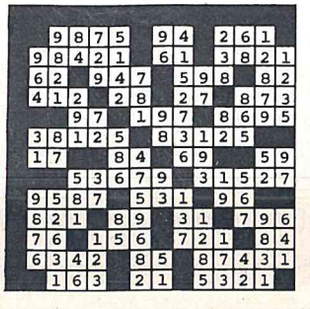

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MYSTERY JIGSAW PUZZLES

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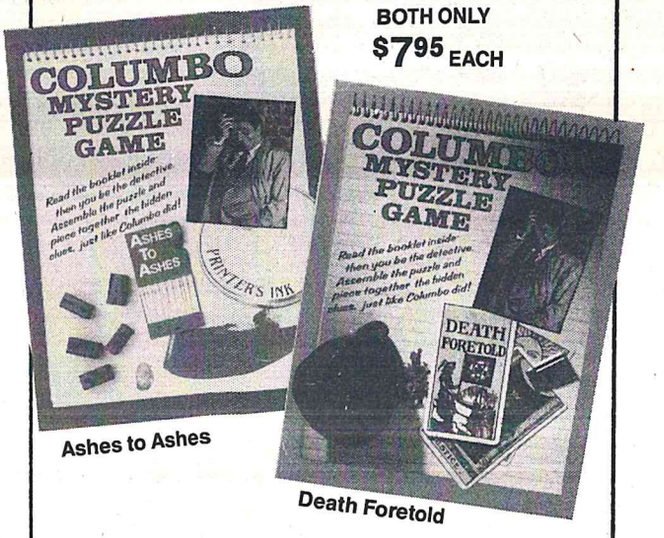
BOTH ONLY $7.95 EACH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Read the booklet inside then you be the detective. Assemble the puzzle and piece together the hidden clues, just like Columbo did!
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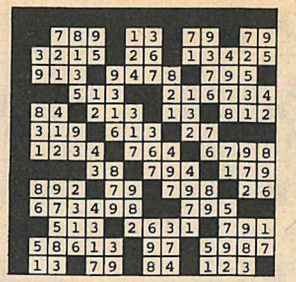

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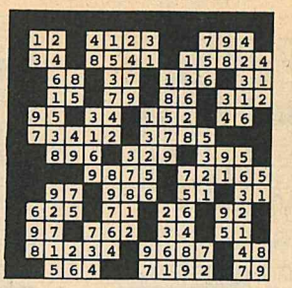

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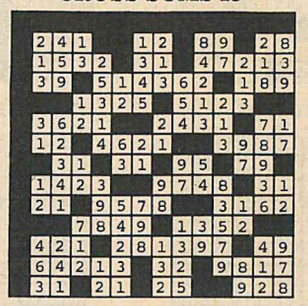

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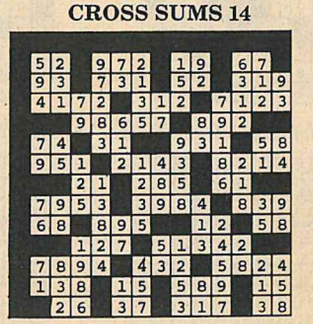

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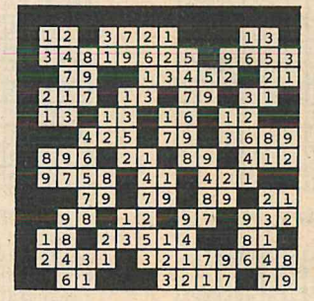

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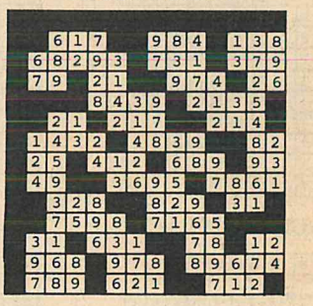

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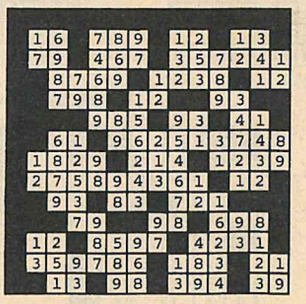

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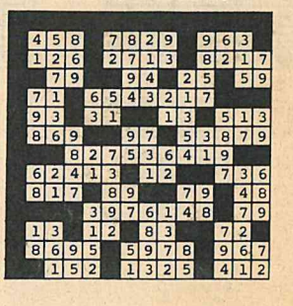

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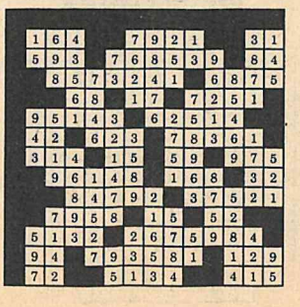

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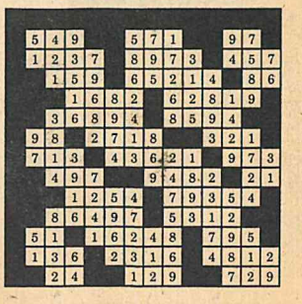
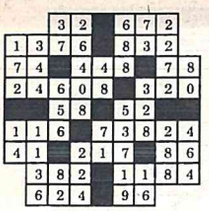


FIGURE LOGIC 1



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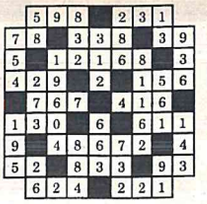

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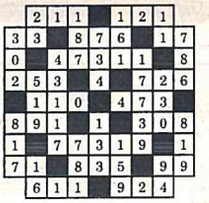

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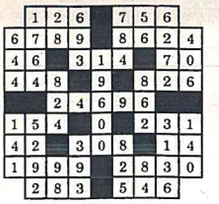

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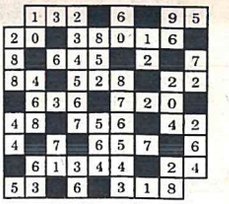

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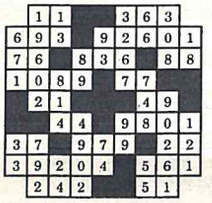

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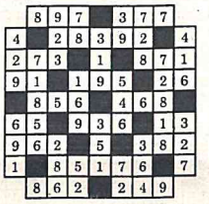

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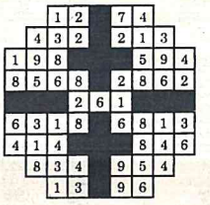

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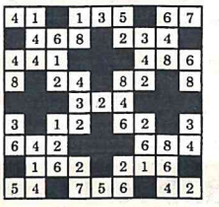

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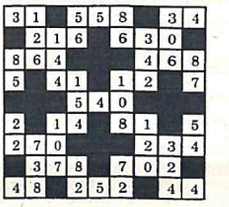


NUMBER PLACE 1

6	8	4	1	3	2	7	9	5
9	5	2	7	4	8	6	1	3
3	1	7	5	9	6	4	2	8
2	7	8	9	5	1	3	4	6
5	4	6	2	8	3	1	7	9
1	3	9	4	6	7	5	8	2
7	2	5	6	1	9	8	3	4
4	9	3	8	7	5	2	6	1
8	6	1	3	2	4	9	5	7

NUMBER PLACE 2

5	8	3	6	9	1	2	7	4
1	2	9	7	3	4	8	6	5
6	4	7	8	5	2	1	3	9
2	5	4	1	6	8	7	9	3
3	1	6	5	7	9	4	8	2
7	9	8	2	4	3	5	1	6
8	3	1	9	2	5	6	4	7
4	6	5	3	8	7	9	2	1
9	7	2	4	1	6	3	5	8

NUMBER PLACE 3

8	2	4	7	5	1	3	6	9
7	6	9	4	3	2	8	1	5
3	5	1	8	6	9	4	2	7
9	1	5	3	2	8	7	4	6
6	3	2	5	7	4	9	8	1
4	8	7	9	1	6	5	3	2
2	7	3	6	8	5	1	9	4
1	4	8	2	9	7	6	5	3
5	9	6	1	4	3	2	7	8

MAGIC NUMBER SQUARES

1.

35	41	38	36
44	30	33	43
32	42	45	31
39	37	34	40

2.

45	69	57	49
81	25	37	77
33	73	85	29
61	53	41	65

NUMBER PLACE 4

9	6	3	1	4	5	7	2	8
8	4	1	2	3	7	6	5	9
7	5	2	8	6	9	1	3	4
6	9	7	4	5	8	3	1	2
1	8	5	9	2	3	4	7	6
3	2	4	6	7	1	9	8	5
2	3	9	7	8	6	5	4	1
5	1	8	3	9	4	2	6	7
4	7	6	5	1	2	8	9	3

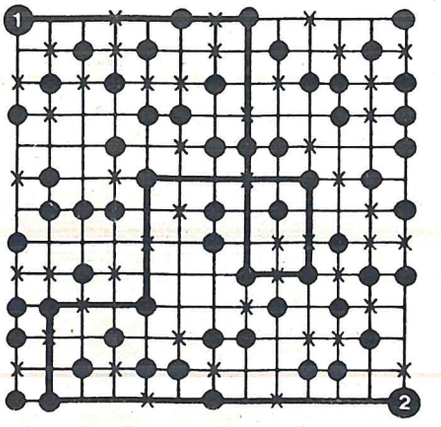
NUMBER PLACE 5

1	8	7	4	3	6	5	2	9
4	2	5	9	7	1	3	8	6
9	3	6	5	2	8	4	1	7
6	1	3	2	9	7	8	4	5
8	7	4	1	5	3	6	9	2
5	9	2	8	6	4	7	3	1
3	6	1	7	4	2	9	5	8
7	5	8	3	1	9	2	6	4
2	4	9	6	8	5	1	7	3

NUMBER PLACE 6

7	8	5	1	9	4	3	6	2
9	6	1	3	2	5	8	7	4
4	2	3	7	8	6	5	9	1
8	9	4	5	6	7	2	1	3
5	1	7	2	4	3	9	8	6
2	3	6	9	1	8	4	5	7
6	5	8	4	7	2	1	3	9
1	7	2	8	3	9	6	4	5
3	4	9	6	5	1	7	2	8

DOTS AND X'S MAZE



NUMBER PLACE 7

6	2	9	1	3	4	5	8	7
8	3	5	2	6	7	1	9	4
4	7	1	5	8	9	6	2	3
5	8	7	9	1	2	4	3	6
2	9	4	3	5	6	8	7	1
1	6	3	4	7	8	9	5	2
9	1	8	7	4	3	2	6	5
7	5	6	8	2	1	3	4	9
3	4	2	6	9	5	7	1	8

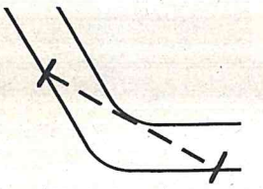
NUMBER PLACE 8

8	9	3	1	2	5	4	7	6
4	6	1	7	3	8	2	9	5
5	7	2	4	6	9	1	3	8
7	5	8	3	1	4	9	6	2
9	2	4	8	7	6	3	5	1
1	3	6	5	9	2	7	8	4
6	4	7	9	8	1	5	2	3
2	1	9	6	5	3	8	4	7
3	8	5	2	4	7	6	1	9

NUMBER PLACE 9

8	3	6	2	9	1	5	4	7
9	7	1	5	3	4	8	2	6
4	5	2	8	7	6	3	1	9
1	2	8	9	6	5	4	7	3
5	9	7	4	1	3	2	6	8
3	6	4	7	8	2	9	5	1
2	1	3	6	5	9	7	8	4
6	8	5	3	4	7	1	9	2
7	4	9	1	2	8	6	3	5

A BEELINE FOR YOUR BUS LINE



Your street runs in a curve which you cut off by walking in the direction indicated.

LETTER LINK

H	G	R	I	T
W	E	N	S	U
		A	O	

GRIDDIGITS

1.

		3	2		
2	1	4	3	5	6
3	2			8	7
	5	7	6	9	8
5	4	6	8	7	
4	3	5	7	6	

2.

	4	2	5	3
	3	1	4	2
		3		
8	6	5	7	
7	5	4	6	

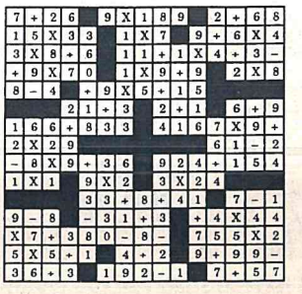
BINGO PLAYS 1

	B 1-15	I 16-30	N 31-45	G 46-60	O 61-75	
P	(10)	27	36	52	68	P
L	1	(19)	44	59	71	L
A	9	28	(FREE)	58	64	A
Y	6	24	41	(57)	63	Y
S	2	29	39	47	(75)	S
	B	I	N	G	O	

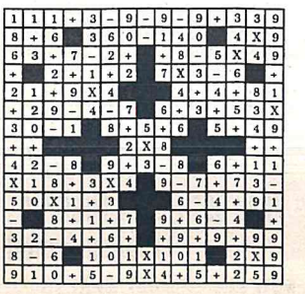
BINGO PLAYS 2

	B 1-15	I 16-30	N 31-45	G 46-60	O 61-75	
P	15	17	31	50	72	P
L	7	30	39	51	61	L
A	(3)	(24)	(FREE)	(60)	(62)	A
Y	4	19	32	57	66	Y
S	9	27	41	52	70	S
	B	I	N	G	O	

CROSSMATH 1



CROSSMATH 2



LOGIC PROBLEM 1

Dwayne's birthday gift wasn't black, nor was it the green coach car (clue 2). Since it was his birthday gift, it wasn't the red caboose (clue 1); it was blue. Elaine's gift for baby-sitting wasn't black (clue 3), or the red caboose for Christmas (clue 1); she received the green coach car (clue 2). By elimination, the Crane who received the black train part did so for raking leaves. Blaine didn't rake leaves (clue 4), so Wayne did and Blaine got the red caboose for Christmas. The dining car wasn't black (clue 3); it was blue and was Dwayne's gift, and by elimination, the black part was the boxcar. In summary:

Blaine, red caboose, Christmas
Dwayne, blue dining car, birthday
Elaine, green coach car, baby-sitting
Wayne, black boxcar, raking leaves

LOGIC PROBLEM 2

The family with one child is not Chilton (clue 1), White (clue 3), or Burroughs (clue 4); the Ploughs have one child. Neither the Chilton family (clue 1) nor the Burroughs family (clue 4) has two children, so the Whites have two. The family that has four children doesn't live at 102 (clue 1), 103 (clue 4), or 104 (clue 5); they live at 101. The family that has three children doesn't live at 102 (clue 1) or 103 (clue 4); they live at 104. Since the Ploughs have one child and the Whites have two children, neither family lives at 101 or 104; they live, in some order, at 102 and 103. The Ploughs don't live at 102 (clue 2); so they live at 103 and, by elimination, the Whites live at 102. The Burroughses have two more children than the Ploughs (clue 4); so the Burroughses have three and live at 104 and, by elimination, the Chiltons have four and live at 101. The Ploughs contributed the lentil soup (clue 3). The hot cocoa wasn't made by the Burroughses (clue 5) or the Whites (clue 3); it was made by the Chiltons. The Whites didn't make the baked apples (clue 1); so the Burroughses did and, by elimination, the Whites made beef stew. In sum:

Burroughs, baked apples, 3 children, 104
Chilton, hot cocoa, 4 children, 101
Plough, lentil soup, 1 child, 103
White, beef stew, 2 children, 102

LOGIC PROBLEM 3

Mark's locker is #3, the one with the football (clue 4). Ken and the O'Malley teen didn't bring lunch (clue 2), so they have lockers #1 and #3; therefore, Mark's last name is O'Malley and Ken has locker #1. The band instruments are in lockers #1 and #4. Ken, who has #1, is the Gonzales teen and Julie has locker #4 (clue 3). Becky and the Rosenberg teen share two classes (clue 1). By the illustration, the classes are Math 4 and World History, the books for which are in lockers #2 and #4; therefore, Julie is the Rosenberg teen and Becky has locker #2. By elimination, Peg has locker #5. Becky's locker doesn't have sports equipment, so she is not the Abernathy teen (clue 4); she is the Vanderwall teen and, by elimination, Peg is the Abernathy teen. In summary:

Locker #1: Ken Gonzales
Locker #2: Becky Vanderwall
Locker #3: Mark O'Malley
Locker #4: Julie Rosenberg
Locker #5: Peg Abernathy

LOGIC PROBLEM 4

Since each wife took her husband's name, Robin is Mrs. Finch (clue 1). Her husband is Henry (clue 3). The clockmaker is not Will or Robin (clue 1) and he doesn't play golf (clue 6), so he isn't Martin (clue 3); Jay is the clockmaker. He isn't married to Ellen (clue 1) or Sally (clue 3),; he is married to Louise. Will isn't married to Ellen (clue 1); so Martin is, and Will is married to Sally. Louise wasn't Raven (clue 2) or Wren (clue 4), so she was Crowe. Sally wasn't Raven (clue 5), so Sally was Wren and, by elimination, Ellen was Raven. Neither Sally nor Ellen married the veterinarian (clue 5), so Robin's the veterinarian. Sally isn't married to the pilot (clue 4), so Martin is the pilot and, by elimination, Will is the singer. In summary:

Jay, clockmaker, married Louise Crowe
Martin, pilot, married Ellen Raven
Robin, veterinarian, married Henry Finch
Will, singer, married Sally Wren

LOGIC PROBLEM 5

Fred didn't call from Jalington (clue 2), Niredax (clue 4), or Vestla (clue 5); he called from Alexeistria. Bob didn't call from Niredax (clue 4) or Vestla (clue 5); he called from Jalington. The first and fourth callers were men (clue 5); so by clue 1, the health question came second, Karen's question was third, and Fred's question from Alexeistria was fourth. Bob's question, then, was first and Joy's, by elimination, was second. By clue 4, Joy's call came from Niredax and Karen's call concerned education. By elimination, Karen's education call came from Vestla. Bob's question wasn't about the budget (clue 3); by elimination, it was about taxes and Fred asked about the budget. In summary:

1st: Bob, Jalington, taxes
2nd: Joy, Niredax, health care
3rd: Karen, Vestla, education
4th: Fred, Alexeistria, budget

LOGIC PROBLEM 6

Lola solved from 7:00 to 10:00 and took 5-minute breaks between puzzles. She spent 40 minutes completing #3 (clue 4); thus, the puzzle about the aliens was #1 and the Stanitz puzzle was #2 (clue 3). Lola took 30 minutes to do both #1 and #2 (clue 4), so the 30-minute puzzle wasn't first or second, nor was it #5 (clue 5), so the 30-minute puzzle was #4 and the dinner-party puzzle was #5. The birthday-presents puzzle took 20 minutes (clue 1). This wasn't the #1-alien puzzle, the #3-40 minute puzzle, the #4-30 minute puzzle, or the #5-dinner-party puzzle; by elimination, it was #2. The #1 puzzle, therefore, took 10 minutes and was written by McCann (also clue 1). Lola started 30-minute #4 at 8:25 p.m. (clue 4), took a 5-minute break, and did #5. Thus, #5 took 60 minutes. The one written by Chao took twice as long as the sports-teams puzzle (clue 2), so Chao wrote the 60-minute one and #4 was the sports-teams puzzle. By elimination, #3 was the one about the family vacations. Rigoni didn't make #4 (clue 5), so Rigoni made #3 and, by elimination, Stormer made #4. In sum:

#1: aliens, Dakota R. McCann, 10
#2: birthday presents, Marie T. Stanitz, 20
#3: family vacations, Carmine D. Rigoni, 40
#4: sports teams, Harold V. Stormer, 30
#5: dinner party, Jennifer E. Chao, 60

LOGIC PROBLEM 7

There are six combinations of icing and cupcakes, so only two children like each icing. The Joneses' next-door neighbors are #714 and #718 (clue 1). Mary lives in #718 (clue 6). Lucy and Ben prefer the same icing (clue 3), as do Mary and her brother (clue 6), so Ben isn't Mary's brother. Bob isn't Mary's brother (clue 2); Ed is. Ben lives in #717 and Lucy live in #714 (clue 3). Ben is Lisa's brother and Bob is Lucy's (clue 7). Ed doesn't like mint icing (clue 2) or cherry icing (clue 6); he and Mary like chocolate icing. Lucy and Ben don't like mint icing (clue 3); so they like cherry and, by elimination, Lisa and Bob like mint icing. Mary and Ed aren't the Ames children (clue 6). Lisa and Ben aren't the Reeds (clue 5). If they were the Bass children, Ben would eat the vanilla cupcake (clue 4) with cherry icing and Lisa would eat chocolate (clue 7) with mint. Ed and Bob would also be eating chocolate cupcakes (clue 4) and Bob's would be with mint icing. There would be two children eating the exact same cupcake and icing combination, so Lisa and Ben aren't the Bass children; they are the Ames children. Ben Ames likes chocolate (clue 4) with cherry icing and Lisa likes vanilla (clue 7) with mint; therefore, Bob's mint-iced cupcake is chocolate. His last name isn't Bass (clue 4); he and Lucy are the Reeds and Lucy likes vanilla with cherry. By elimination, Mary and Ed are the Bass children. Ed likes vanilla (also clue 4) with chocolate and Mary likes chocolate with chocolate. In summary:

#714: Lucy Reed, vanilla with cherry icing
Bob Reed, chocolate with mint icing

#717: Lisa Ames, vanilla with mint icing
Ben Ames, choco. with cherry icing

#718: Mary Bass, choco. with choco. icing
Ed Bass, vanilla with chocolate icing

LOGIC PROBLEM 8

The Goddess of Television was painted on one end of the mural (clue 6). Her symbol was not the volcano (clue 2), palm frond (clue 4), monkey (clue 5), or eagle (clue 6); it was the waterfall. The Goddess of Television was not in position five (clue 7); she was in position one and the goddess whose symbol was the eagle was in five (clue 6). The goddess in position one was not Wornom (clue 1), Daxios (clue 2), Chikwan (clue 3), or Noohi (clue 7); she was Pavola. The symbol for the goddess in two was the monkey and the Goddess of Sports was in three (clue 5). The goddess in five was neither Leisure (clue 1) nor Air Travel (clue 3); she was Goddess of Video Games. The goddess whose symbol was the palm frond was pictured in four and Noohi was in three (clue 4). By elimination, the symbol for the goddess in three was the volcano. The goddess in two was not Wornom (clue 1) or Chikwan (clue 3); she was Daxios. The Goddess of Air Travel was not in two (clue 3) she was in four and the Goddess of Leisure was in two. Chikwan was pictured in five (clue 3) and, by elimination, Wornom was in four. In summary:

1: Pavola, Television, waterfall
2: Daxios, Leisure, monkey
3: Noohi, Sports, volcano
4: Wornom, Air Travel, palm frond
5: Chikwan, Video Games, eagle

LOGIC PROBLEM 9

The four course numbers are 402, 451, and 499; and 427 (clue 4). The course number for Prof. Hidalgo's class is higher than at least two others (clue 3), so can't be either 402 or 427. The course number for the Russian history class is lower than at least two others (clue 2), so is either 402 or 427. Therefore, Prof. Hidalgo doesn't teach Russian history. Hidalgo teaches neither Egyptian history (clue 5) nor English history (clue 3); he teaches Chinese history. The sister taking Prof. Hidalgo's class isn't Hannah (clue 1), Anna (clue 2), or Vanna (clue 3); she is Jana. Anna isn't in Prof. Akino's class (clue 1) or Prof. Jordan's class (clue 2); she is in Prof. Vale's class. The teacher of the Russian history class isn't Prof. Vale or Prof. Jordan (clue 2); Prof. Akino teaches that class. The professor who teaches course 402 isn't Prof. Hidalgo (clue 3), Prof. Jordan or Prof Vale (clue 2); Prof. Akino's Russian history class is 402. Neither Prof. Hidalgo (clue 3) nor Prof. Vale (clue 4) teaches course 427; Prof. Jordan's class is 427. The student in Prof. Jordan's class isn't Hannah (clue 4) or Jana (clue 1); she is Vanna. By elimination, Hannah is taking Prof. Akino's class. By clue 3, the English history class is course 451 and Prof. Hidalgo's class is 499. By elimination, Prof. Vale teaches course 451. By elimination, the Egyptian history class is Jordan's 427. In summary:

Anna, 451, England, Prof. Vale
Hannah, 402, Russia, Prof. Akino
Jana, 499, China, Prof. Hidalgo
Vanna, 427, Egypt, Prof. Jordan

LOGIC PROBLEM 10

The number of years married ranged from 20 (clue 3) to 55 (clue 2); they were 20, 25, 30, 35, 40, 45, 50, and 55. There were purchases made in July (clue 3) and August (clue 6), so the four equally spaced months when no homes were bought were March, June, September, and December (clue 10). By clue 3, then, the Faiths bought the red house in January, the Baldwins the one on Jefferson in February, the Douglases the April purchase, and the couple married 20 years the May purchase. The house on Washington was bought in either April or May (clue 1); if it had been in May, then the blue house would have been purchased in August and the green one in November. However, the orange house had to have been purchased in either August or November (clue 9), so the Washington Avenue house was not bought in May; it was bought in April. The Ansons bought the blue house in July and the couple married 30 years bought the green house in October (clue 1). The Adams Court house was the August purchase, the Carpenters bought the green house in October, and the Baldwins have been married 35 years (clue 5). By clue 4, the Van Buren Street couple have been married 45 or 30 years, the Gregsons 40 or 25, and the couple who bought the brown house 35 or 20. If the Gregsons were married 40 years, they would have purchased in November, but, by clue 9, the couple married 40 years purchased in April or July. So, the Van Buren Street couple have been married 30 years and are the Carpenters; the Gregsons have been married 25 years and, by elimination, bought in November; and the brown house was purchased in May by the couple married 20 years. The Hathaways, who bought the tan house (clue 2), made their purchase in August; so, the orange house was the Gregsons' and the Ansons have been married 40 years (clue 9). By elimination, the Douglases have been married 45 years. Also by elimination, the Engleharts bought the brown house. By clue 7, the yellow house was purchased in April and, by elimination, the gray house was purchased in February. The Engleharts' house wasn't on Monroe or Kennedy (clue 7); they live on Lincoln. The Ansons live on Monroe and the Gregsons on Kennedy (clue 7). In summary:

January: Faith, 55 years, Madison, red
February: Baldwin, 35, Jefferson, gray
April: Douglas, 45, Washington, yellow
May: Englehart, 20, Lincoln, brown
July: Anson, 40, Monroe, blue
August: Hathaway, 50, Adams, tan
October: Carpenter, 30, Van Buren, green
November: Gregson, 25, Kennedy, orange

LOGIC PROBLEM 11

Jeff didn't draw the first penalty (clue 2), so the five-space penalty, by clue 6, was fourth or fifth. One of the last two penalties was five spaces; so, by clue 3, the first three penalties were (in some order) one space, three spaces, and four spaces. Therefore, the last two were two spaces and five spaces. The last three penalties were Tim's, the one with the blue marker, and two spaces (clue 4). The blue marker penalty wasn't five spaces (clue 2); Tim went back five and the boy with the blue marker picked third (clue 4). Jeff was one of the first three to draw penalty cards (clue 6). By clue 2, he was second; the first penalty was four spaces, the second was one space, and the third was three spaces. The lame-horse penalty was third and Tim's five-space penalty was fourth (clue 6). By elimination, the last penalty was two spaces. By clue 7, the boy with the green marker was penalized one space, the one who met the dragon two, and Ian three. By clue 3, then, the bandits were the fourth penalty and the yellow marker had the fifth. That wasn't Bob (clue 1); it was Mike and, by elimination, Bob was penalized first. Therefore, the boy with the orange marker was penalized five spaces and the one with the dull sword was penalized one space (clue 5). By elimination, Bob had the red marker and was penalized when he landed in the swamp. In summary:

1st: Bob, red, swamp, 4 spaces
2nd: Jeff, green, dull sword, 1 space
3rd: Ian, blue, lame horse, 3 spaces
4th: Tim, orange, bandits, 5 spaces
5th: Mike, yellow, dragon, 2 spaces

LOGIC PROBLEM 12

The five finalists in the tournament were Mr. and Mrs. Zim (clue 4), Mr. Young and his wife (clue 7), and Ms. Wells (clue 2). Mr. and Mrs. Zim together ended up losing 240 points (clue 4); one player ended with 160 points (clue 2), and someone else ended with 10 points (clue 5). Since the total points gained must balance the total points lost, the last person ended with 70 points (clue 8). Ms. Wells was not the one who ended with 160 points (clue 2) or the one who ended with 10 points (clue 5); she ended with 70 points. Mrs. Young ended with 10 points and Mr. Young with 160 points (clue 7). Mr. Zim lost 20 points fewer than one of the Youngs gained (clue 4), so he lost 140 points and Mrs. Zim lost 100 points. Mr. Zim had the biggest loss, so he is not Pat or Lee (clue 3), Chris or Kit (clue 6); he is Sandy. By clue 6, the one who sat out during the fourth rubber is one of the Zims. Pat, by clue 3, did better than that person as well as two others and is, therefore, Ms. Wells, while Lee was the big winner with 160 points and is Mr. Young. Chris's last name isn't Young (clue 1); she is Mrs. Zim, and Kit is Mrs. Young. Sandy Zim sat out during the fourth rubber (clue 6). Kit and Chris, in some order, sat out during the second and third rubbers (clue 3). By clue 5, then, the player who ended with 10 points, Kit Young, sat out during the second rubber and Chirs Zim sat out the third rubber; Pat Wells didn't sit out the fifth rubber, so she sat out during the first rubber, and Lee Young, by elimination, the fifth rubber. In summary:

Ms. Pat Wells, gained 70 points, sat out first rubber
Mrs. Kit Young, gained 10 points, sat out second rubber
Mr. Lee Young, gained 160 points, sat out fifth rubber*
Mrs. Chris Zim, lost 100 points, sat out third rubber
Mr. Sandy Zim, lost 140 points, sat out fourth rubber

**barcomeister*

PRESTO-CHANGO!

1. wood, plank, board; 2. bride, aisle, veil; 3. warn, alert, siren; 4. peach, fuzz, pit; 5. game, show, host; 6. cover, quilt, bed; 7. pep, vigor, vim; 8. acorn, tree, fall; 9. romp, caper, play; 10. steel, beam, rivet; 11. pull, weed, lawn; 12. gold, chain, neck; 13. lunch, noon, snack; 14. towel, beach, sand

FIGURES CAN LIE

1. 6 + 6/6 = 7
2. $13,212 ($12,000 + $1,200 + $12)
3. 19 + 1/2 = $19\frac{1}{2}$
4. "S," S + IX (roman numerals) = SIX
5. SIX – IX = S, IX – X = I, XL – L = X, = SIX
6. IX — cross the I, it makes XX
7. ivy (IV)
8. 1.25 or 11/4 times 4 = 5
9. 1,000 is M, 1 is I, 50 is L, 50 is L, 1 is I — remove these letters from "MILLION" to get "ON"
10. the number 6

MINUTE MATH

1. $33/3 + 33/3 - 3 + 3/3$ is the same as 11 + 11 – 3 + 1, which is 20
2. $(8 + 8 + 8/8 - 8/8) \div 8$ is the same as $(8 + 8 + 1 - 1)$, which is 16 ÷ 8, which is 2
3. $(2 + 2)^2 - 22/2 - 2 - 2$ is the same as 16 – 11 – 2 – 2, which is 1

(Other solutions are possible.)

LOGIC PROBLEM 13

The flower in seven was not the thistle (clue 1), daisy (clue 3), yarrow (clue 4), cinquefoil (clue 7), goldenrod (clue 8), or phlox (clue 9); it was the violet. The butterfly in one was not the Sleepy Orange (clue 1), Viceroy (clue 2), Zebra Swallowtail (clue 3), Red Admiral (clue 6), Pearly Eye (clue 9), or Spring Azure (clue 10); it was the Olympia Marblewing. The cinquefoil was in either five or six (clue 7). If it were in six, then the butterfly in six would not have been the Sleepy Orange (clue 1), Viceroy (clue 2), Zebra Swallowtail (clue 3), Pearly Eye (clue 5), or Spring Azure (clue 10); it would have been the Red Admiral. The wish in six would not have been for freedom (clue 1), wealth (clue 2), health (clue 4), happiness (clue 5), a good family life (clue 6), or good jobs (clue 10). Also, since the Viceroy was not with the violet, the wish in six would not have been for peace (clue 2); there would have been no wish in six. Therefore, the cinquefoil was in five. Since the violet was not with the wish for freedom (clue 6), the flower in six was not the thistle (clue 1). Since the Sleepy Orange butterfly was not in five (clue 1), the flower in six was not the goldenrod (clue 8). Since the violet was not with the wish for health (clue 9), the flower in six was not the yarrow (clue 4). Since the violet was not with the Pearly Eye butterfly, the flower in six was not the phlox (clue 9). The flower in six, then, was the daisy. The wish for a good family life was in seven (clue 3). The butterfly in seven was not the Viceroy (clue 2), Zebra Swallowtail (clue 3), Red Admiral (clue 6), Sleepy Orange (clue 8), or Pearly Eye (clue 9); it was the Spring Azure. The butterfly in two was not the Viceroy (clue 2), Zebra Swallowtail (clue 3), Sleepy Orange (clue 8), or Pearly Eye (clue 9); it was the Red Admiral. The butterfly in six was not the Sleepy Orange (clue 1), Viceroy (clue 2), or Zebra Swallowtail (clue 3); it was the Pearly Eye, The butterfly in three was neither the Viceroy (clue 2) nor the Zebra Swallowtail (clue 3); it was the Sleepy Orange. The goldenrod was in four (clue 8). The freedom wish was not in one, two, three, four, or six (clue 1); it was in five. The wish in four was not for peace or wealth (clue 2), good jobs (clue 3), or happiness (clue 5); it was for health. The butterfly in four was not the Viceroy (clue 4); it was the Zebra Swallowtail and, by elimination, the Viceroy was in five. The wish in six was not for peace (clue 2), good jobs (clue 3), or happiness (clue 5); it was for wealth. The wish for happiness was with neither the yarrow (clue 4) nor the thistle (clue 7); it was with the phlox. The wish for good jobs was in neither one (clue 3) nor three (clue 8); it was in two. The wish with the Sleepy Orange butterfly was not for peace (clue 8); it was for happiness and, by elimination, the wish with the Olympia Marblewing in one was for peace. The flower with the Olympia Marblewing was not the thistle (clue 7); it was the yarrow and, by elimination, the Red Admiral was with the thistle. In summary:

One: Olympia Marblewing, yarrow, peace
Two: Red Admiral, thistle, good jobs
Three: Sleepy Orange, phlox, happiness
Four: Zebra Swallowtail, goldenrod, health
Five: Viceroy, cinquefoil, freedom
Six: Pearly Eye, daisy, wealth
Seven: Spring Azure, violet, good family life

LOGIC PROBLEM 14

Saturday's ghost was not in the bedroom (clue 1), nursery (clue 2), dining room (clue 3), tower (clue 4), or entrance hall (clue 5); it was in the library. It showed her the book (clue 2). It was not Bertram, Clarence, or Agatha (clue 3) or Felicia (clue 4); it was either Eric or Delia. If it had been Delia, the ghost in the bedroom would have appeared Friday and the ghost with the gold coins Thursday (clue 1). Thursday's ghost would not have been Eric (clue 1), Bertram or Clarence (clue 3), or Felicia (clue 4); it would have been Agatha. Agatha and her coins would not have been in the dining room (clue 3), tower (clue 4), or entrance hall (clue 5); they would have been in the nursery. By clue 4, then, Harriet would have met the tower ghost Tuesday, Felicia Wednesday, and been given the painting Friday in the bedroom. However, this would leave no day for the ghost of the man who haunts the entrance hall (clue 5); therefore, Delia was not Saturday's ghost. So, Eric was. Thursday's ghost was not Bertram or Clarence (clue 3) or Felicia (clue 4); it was either Agatha or Delia. Friday's ghost was not in the bedroom (clue 1), tower (clue 4), or entrance hall (clue 5); it was in either the dining room or the nursery. Neither Bertram nor Clarence was in either the nursery (clue 2) or dining room (clue 3); Friday's ghost was female. She was not Felicia (clue 4); she was either Agatha or Delia. Agatha and Delia, then, appeared, in some order, on Thursday and Friday. Monday's ghost was not Felicia (clue 4); it was either Bertram or Clarence. Neither haunted either the nursery (clue 2) or the dining room (clue 3). Monday's ghost was not in the bedroom (clue 1) or the entrance hall (clue 5); by elimination, then, it was in the tower. By clue 4, Felicia appeared Tuesday and Harriet was shown the painting Thursday. Monday's treasure was not the letter (clue 7) nor, since that ghost was either Bertram or Clarence, was it the silver (clue 3). Since Delia appeared either Thursday or Friday, Harriet was not shown the coins on Monday (clue 1); she was shown the chest of jewels that day. By clue 5, the man in the entrance hall appeared Wednesday, and Harriet was shown the letter Tuesday. By clue 1, Harriet was shown the coins Wednesday, met the ghost in the bedroom Thursday, and met Delia Friday. Agatha, then, appeared Thursday in the bedroom. By elimination, Delia showed her the silver. She did not, then, appear in the dining room (clue 3); she appeared in the nursery while, by elimination, Felicia appeared in the dining room. Bertram did not appear Wednesday (clue 6); he appeared Monday and Clarence appeared Wednesday. In summary:

Mon.: Bertram, chest of jewels, tower
Tues.: Felicia, letter, dining room
Wed.: Clarence, coins, entrance hall
Thurs.: Agatha, painting, bedroom
Fri.: Delia, silver, nursery
Sat.: Eric, book, library

TRIANGLE TANGLE

The 35 triangles are:

ABC	BIO	DIR	FPQ	MOS
ADE	BJP	DJQ	GLS	MPT
AHG	CEF	EGN	GKT	NRS
AIL	CGM	ELR	HIS	NQT
AJK	CLO	EKQ	HJT	OPU
BDF	CKP	FMN	IJU	RQU
BHM	DHN	FOR	LKU	STU

TRIGONS HELP

For puzzle 1, look at the triangles with 10 as their sums. Since the two possible combinations are 2-4-4 and 3-3-4, the number they share is 4. The 10 triangle on the right, next to the triangle with 2 as its sum, must be the 2-4-4 triangle. Therefore, the 2 triangle is 0-0-2 and the 2 triangle next to that one must be 0-1-1, with the 0 being the shared side of the two 2 triangles.

DEDUCTION PROBLEM

All five ages are even numbers (clue 1). There are five women and five generations, so each woman is the mother of the one just younger than she, and the daughter of the one just older. There are four last names, so two women have the same last name; four married women are mentioned, so the youngest is unmarried, and retains the same last name as her mother. Any married woman, then, has a daughter. The oldest woman is, at most, 98, and the youngest, at least, 2 (clue 1). Mrs. Phipps is married, so has a daughter, and therefore, is at least 20 (clue 3); by clue 2, she is between 20 and 24, Jane between 40 and 48, and Mrs. Ames between 80 and 96; Mrs. Phipps is the fourth generation, and her daughter is also Phipps. Since Jane is at most 24 years older than Mrs. Phipps, she is Mrs. Phipps's mother (clue 3). By clue 5, either Betty or Edna is the youngest. If Edna were the youngest, Betty would be next-youngest (clue 5) and would be Mrs. Phipps. However, this would leave no place for both Karen and her grandmother Moss (clue 4). Betty, then, is the youngest. Since Edna's age is an even number but Betty's will not divide evenly into it, Betty is not 2; she is either 4 or 6 (clue 5). Four of the generations from oldest to youngest are Mrs. Ames, Jane, Mrs. Phipps, and Betty Phipps. By clue 4, then, Mrs. Moss is older than Jane, while Karen is younger; Karen is Mrs. Phipps. Mrs. Moss is, then, the second generation (clue 4). By elimination, Jane is Mrs. Zarin, while Mrs. Ames is the oldest. Jane's mother is not Doris (clue 3); Doris is Mrs. Ames so, by elimination, Edna is Mrs. Moss. Edna, then, is 18 years younger than Doris (also clue 3). Betty is either 4 or 6, and her mother Karen is at least 20 years older than she (clue 2); if Betty were 6, Karen would be at least 26. Since Karen is at most 24, Betty is not 6; she is 4 and Karen is 24. Jane is 48, Doris is 96 (clue 2), while Edna is 78 (clue 3). In summary:

Doris Ames, 96
Edna Moss, 78
Jane Zarin, 48
Karen Phipps 24
Betty Phipps, 4

LOGIC PROBLEM 15

There are ten men's last names and ten men's first names mentioned; there are ten women's last names mentioned, so Robin is a woman. One shelf contains all women's art, while another contains all men's (clue 1). A man's art is on shelf 2 and a woman's on 3 (clue 3); a woman's is on shelf 1 and a man's is on shelf 4 (clue 10). If the art listed in clue 12 were displayed diagonally downward, there would be no all women's shelf, so it is displayed upward; George's is in either A4 or B4, the nuthatch in either B3 or C3, Mr. Parson's in either C2 or D2, and Ms. Mason's in either D1 or E1. If the pieces mentioned in clue 4 were displayed diagonally upward, row 3 would be all women and row 2 would be all men, while A4 and B4 would be, in some order, George's and Robin's; B3 and C3 would be, in some order, the nuthatch and the quail; C2 and D2 would be, in some order, Mr. Parson's and Don's; and D1 and E1 would be, in some order, Ms. Mason's and Mr. Andrews'. However, this would leave no row for the artwork mentioned in clue 9. Therefore, the art mentioned in clue 4 is listed from top to bottom: Robin's is either A1 or B1, the quail is either B2 or C2, Don's is either C3 or D3, and Mr. Andrews' is either D4 or E4. There are then men's in rows 2, 3, and 4; row 1 contains only women's art. Clue 2 mentions one complete row across; since George is not Mr. Holter (clue 12), that is not row 4, so it is either row 2 or row 3. The column mentioned in clue 10 includes a flicker in row 2 and a blue jay in row 3; since the row mentioned in clue 2 includes a warbler in column C and a tanager in column E, the column in clue 10 is either A or D. If it were A, Carla's would be in A1, the flicker in A2, the blue jay in A3, and Kevin's in A4. Robin's, then, would be in B1, the quail in C2, Don's in D3, and Mr. Andrews' in E4. This, however, would leave no place for the row mentioned in clue 2. Therefore, the column in clue 10 is column D; Carla's is in D1, the flicker in D2, the blue jay in D3, and Kevin's in D4. One artist's first name matches the bird portrayed (clue 8). This artist is then, Phoebe, Robin, or Lark. Lark's is below Mr. Elkin's (clue 15), while the lark is below Ms. Bixler's (clue 3); Lark did not carve the lark. Robin's is on the all-women's shelf, while the robin is on a shelf with Wilbur's (clue 17); Robin did not carve the robin. By elimination, Phoebe carved the phoebe. One artist's last name matched the bird carved (clue 8); this artist is either Mr. Wren or Ms. Finch. If Ms. Finch carved the finch, it would be just above Al's, with a vireo on one side and Janice's on the other (clue 11), while Ms. Kean's would be above the finch and Phoebe's phoebe would be above Ms. Kean's (clue 6). Since Mr. Holter's is in either B2 or B3 (clue 2), Al's would be in C4, Ms. Finch's in C3, Ms. Kean's in C2, and Phoebe's phoebe in C1. Robin's then would be in B1, Ms. Kean's would be the quail, Don's would be the blue jay in D3, and Mr. Andrews' would be in E4 (clue 4). This, however, would leave no row for those mentioned in clue 2. Therefore, Ms. Finch did not make the finch. By elimination, Mr. Wren carved the wren. Ms. Orlando's bird is below Mr. Wren's wren and above Mr. Drexler's (clue 16) so, by clue 14, one column is Ms. Courtney's, Mr. Wren's wren, Freda Orlando's, and Mr. Drexler's. If Manny's were in A3, Mr. Holter's would be in B3, the warbler in C3, Sam's in D3, and the tanager in E3 (clue 2). By clue 12, then, the nuthatch would be in B3, so George's would be in A4, Mr. Parson's in C2, and Ms. Mason would be Carla in D1. By clue 4, Robin's would be in A1, the quail in B2, Don's in C3, and Mr. Andrews' in D4. Ms. Courtney's would be in E1, Mr. Wren's wren in E2, Freda Orlando's in E3, and Mr. Drexler's in E4. This, however, would leave no row for the art mentioned in clue 9. Therefore, Manny's bird is not in A3; it is in A2, Mr. Holter's is in B2, the warbler in C2, Sam's in D2, and the tanager in E2 (clue 2). Robin's, then, is in A1, the quail in B2 by Mr. Holter, Don's in C3, and Kevin is Mr. Andrews (clue 4). Mr. Wren's wren, then, is in A2, and he is Manny; Robin is Ms. Courtney, Freda Orlando's is in A3, and Mr. Drexler's is in A4 (clues 14 and 16). George's is in either A4 or B4; if his were in B4, the nuthatch would be in C3, Mr. Parson's in D2, and Ms. Mason's in E1 (clue 12). By clue 9, the pewee would be Robin's in A1, Helen's would be in B1, the chickadee in C1, Ms. Finley's in D1, and Alice's in E1. By clue 15, Lark's would be in C4, Mr. Elkin's in C3, Kevin Andrews' would be the thrush, and George would be Mr. Tipton. This, however, would leave no spot for Ms. Finch (clue 11). Therefore, George's is not in B4; it is in A4, the nuthatch is in B3, Mr. Parson's warbler is in C2, and Ms. Mason is Carla in D1. By clue 9, then, Ms. Finley's is in D3, Alice's in E3, the chickadee in C3, Helen's in B3, and the pewee in A3. Ms. Finch's is just above Al's and between the vireo and Janice's (clue 11); hers is in either B1 or C1. If it were in B1, Al's would be in B2, Robin Courtney would have carved the vireo, and Janice's would be in C1. By clue 3, the swallow would be in E1, Bill's in E2, Ms. Bixler's is in E3, and the lark in E4. By clue 6, Phoebe would be Ms. Finch, Ms. Kean would be Helen, and the finch would be in B4. The only spots with no names assigned would be E1, B4, C4, and E4; by clue 5, Nancy Sanger's would be in E1, while Oscar Nolan's would be in either B4 or C4. E4 would not be Edna's (clue 13), Wilbur's (clue 17), or Lark's (clue 15); it would be Vince's. However, this would leave no row for Edna's, Ms. Jones', and the oriole (clue 13). Therefore, Ms. Finch's is not in B1; it is in C1, Al is Mr. Parson, Carla Mason carved the vireo, and Janice's is in B1 (clue 11). In one column, Phoebe's phoebe is somewhere above Ms. Kean's, which is somewhere above the finch (clue 6). Phoebe's phoebe, then, is in E1. By clue 3, the swallow is in B1, Bill is Mr. Holter, Helen is Ms. Bixler, and the lark is in B4. The spaces with no names assigned are E2, B4, C4, and E4. By clue 5, either Nancy Sanger's or Oscar Nolan's is in E2, and neither's is in E4. The one in E4 is not Edna's (clue 13), Lark's (clue 15), or Wilbur's (clue 17); it is Vince's. Therefore, Oscar Nolan's is not in E2 (clue 5); Nancy Sanger's is. By clue 17, Wilbur's is in C4, while George Drexler carved the robin. Oscar Nolan's, then, is in B4. By clue 15, Lark's is in D3, Mr. Elkin is Sam, Alice made the thrush, and Don is Mr. Tipton. By clue 6, Alice is Ms. Kean and Vince made the finch. By elimination, Edna is Ms. Finch in C1; by clue 13, Robin made the oriole and Phoebe is Ms. Jones. By elimination, Janice is Ms. Reed. By clue 7, the cardinal is in C4, and was made by Wilbur, the kingfisher is in C1, and Vince is Mr. Laver. By elimination, Wilbur is Mr. Gathers, and Kevin Andrews made the junco. In summary:

	A	B	C	D	E
1:	Robin Courtney oriole	Janice Reed swallow	Edna Finch kingfisher	Carla Mason vireo	Phoebe Jones phoebe
2:	Manny Wren wren	Bill Holter quail	Al Parson warbler	Sam Elkin flicker	Nancy Sanger tanager
3:	Freda Orlando pewee	Helen Bixler nuthatch	Don Tipton chickadee	Lark Finley blue jay	Alice Kean thrush
4:	George Drexler robin	Oscar Nolan lark	Wilbur Gathers cardinal	Kevin Andrews junco	Vince Laver finch

CRYPTIC MATH

In the row referred to in clue 1, either the middle number is 6 and the two outside numbers are 2 and 3, in some order, or the middle number is 8 and the two outside numbers are 2 and 4, in some order. G is greater than 1 and G + 4 = J (clue 5), so the row referred to in clue 1 is not the third row. F is an even number (clue 3) and D, C, and F are consecutive numbers (clue 4); so one of the following is true: D = 2, C = 3, and F = 4; D = 4, C = 5, and F = 6; or D = 6, C = 7, and F = 8. In the latter two cases, neither the first nor the second row can be the one referred to in clue 1, so D = 2, C = 3, and F = 4. Thus, E = 8 (clue 1). G = 5 and J = 9 (clue 5). B = 6 and H = 7 (clue 2). By elimination, A = 1. In summary:

A = 1	D = 2	G = 5
B = 6	E = 8	H = 7
C = 3	F = 4	J = 9

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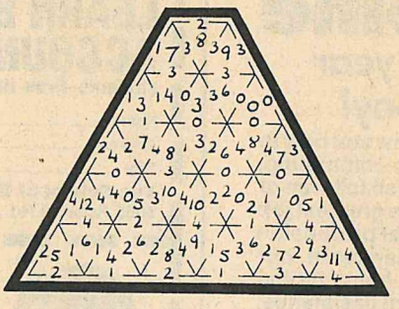
WORD ARITHMETIC

	0	1	2	3	4	5	6	7	8	9
1.	T	H	E/	C	O	W	S/	R	A	N
2.	F	L	Y	I	N	G/	O	V	E	R
3.	S	I	N	G	L	E/	C	O	A	T
4.	W	A	N	T/	M	Y/	H	E	L	P?
5.	I	N/	T	H	E/	B	U	C	K	S
6.	P	A	L	E/	O	R	C	H	I	D
7.	S	T	O	R	A	G	E/	B	I	N
8.	P	U	R	C	H	A	S	I	N	G
9.	D	E	M	O	G	R	A	P	H	Y
10.	C	H	I	L	D'	S/	G	A	M	E
11.	L	O	N	G	E	R/	M	A	T	S
12.	L	A	M	P/	S	W	I	T	C	H
13.	R	A	N	D	O	M/	P	I	C	K
14.	S	A	I	L	O	R/	T	U	N	E
15.	R	E	D	O	U	B	L	I	N	G
16.	C	L	E	A	N/	S	K	I	R	T
17.	W	I	S	P	Y/	F	L	A	K	E
18.	L	U	B	R	I	C	A	T	E	D
19.	B	L	U	E/	C	A	N	O	P	Y
20.	B	R	O	A	D/	S	M	I	L	E
21.	S	P	O	R	T	I	V	E	L	Y
22.	M	Y/	N	E	I	G	H	B	O	R
23.	F	I	X/	Y	O	U	R/	V	A	N
24.	B	R	A	N	D	O/	F	I	L	M
25.	P	I	R	A	T	E/	G	O	L	D
26.	A/	T	I	N	Y/	L	O	D	G	E
27.	M	A	I	L/	T	H	E/	B	O	X
28.	S	T	A	I	N	E	D/	M	U	G
29.	F	A	C	I	N	G/	W	E	S	T
30.	S	L	O	W	E	R/	G	A	I	T
31.	O	N/	T	H	E/	W	A	Y/	U	P
32.	C	O	L	D/	S	H	R	I	M	P
33.	W	H	A	T'	S/	U	P/	D	O	C?
34.	H	Y	P	N	O	T	I	Z	E	S
35.	B	I	V	O	U	A	C	K	E	D
36.	N	O	I	S	Y/	T	R	U	C	K
37.	L	O	F	T	Y/	S	P	I	R	E
38.	D	E	P	A	R	T	S/	N	O	W
39.	F	R	O	S	T	Y/	L	A	W	N
40.	S	U	P	E	R/	M	A	G	I	C
41.	H	I	S/	J	O	U	R	N	E	Y
42.	L	I	T	E	R/	O	F/	G	A	S
43.	B	A	S	I	C/	R	O	U	T	E
44.	P	O	L	I	C	E/	V	A	N	S
45.	F	A	M	I	L	Y/	P	O	S	E

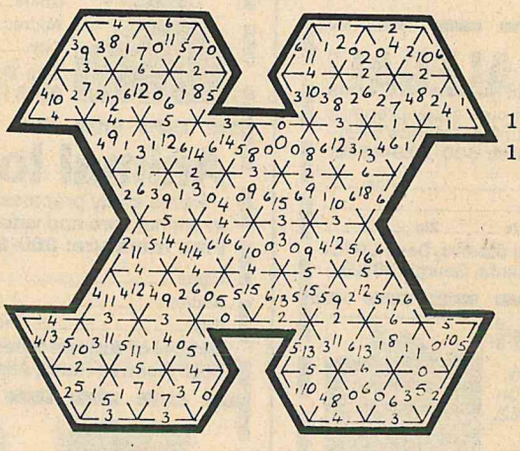
CROSS SUMS HELPS

1. 7831	6. 56321	11. 673498	16. 36521
2. 761	7. 42713	12. 3785	17. 985
3. 871	8. 5132	13. 9748	18. 73892
4. 7689	9. 27865	14. 9358	19. 14527
5. 1324	10. 8695	15. 13452	20. 8594

TRIGON 1



TRIGON 2



BUY WELL
BUY DELL

CIRCLE MATH

A=7; B=9; C=3; D=5; E=2;
F=8; G=4; H=6; I=1

LETTER LINK HELP

The "W" is in the first box of the second row.

FOLLOW THE LEADER

1. father; 2. liquid; 3. auburn; 4. knight; 5. ignore; 6. oxygen; 7. alcove; 8. curfew; 9. phrase; 10. custom

COUNT THE RINGERS

With a total of 3, the peg in box #3 has the most horseshoes around it.

HOW WELL DO YOU FOLLOW DIRECTIONS?

1. MYSTERYWRITER
2. MHSTERHWRITER
3. MHTERHWRISTER
4. MHTECHWRISTEI
5. MHTGCHWRISTEI
6. GHTMCHWRISTEI
7. GAHATAMCHWRISTEI
8. GAATHAMCHWRISTEI
9. AGATHAMCHWRISTEI
10. AGATHACHRISTEI
11. AGATHA CHRISTIE

FIGURE LOGIC HELPS

1. 13-Down is 80, it reads "One-fourth of 16-Across." Therefore, 16-Across is 320.
2. 25-Across is 52
3. 8-Across is 17
4. 28-Down is 98
5. Last digit of 8-Down is 2
6. 1-Across is 11 and begins in the second box across
7. Last digit of 29-Down is 2
8. First digit of 2-Down is 2
9. Last digit of 4-Down is 2
10. First digit of 15-Down is 1

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*Plus $4.94 home delivery fee and any applicable state sales tax. Please allow 4 to 6 weeks for delivery. Canadian price: $79.00 plus postage and handling and any applicable sales tax.

76291-D30304

Spring Boutique Bargain Dresses

2 for 29.95*

3 for 44.75
4 for 59.50

Haband For Her 100 Fairview Ave., Prospect Pk., NJ 07530

Send me ___ dresses.
I enclose $ ___
purchase price. Add $3.95 for postage and handling.

100% Satisfaction Guaranteed or Full Refund of Purchase Price at Any Time!

☐ Check Enclosed
☐ Visa ☐ MC Exp.: ___/___

PETITE (Fits 5'-5'3"): 8P 10P 12P 14P 16P 18P
MISSES' (Fits 5'4"-5'7"): 8 10 12 14 16 18
***WOMEN'S:** Add $2 Per Dress For
14W 16W 18W 20W 22W 24W

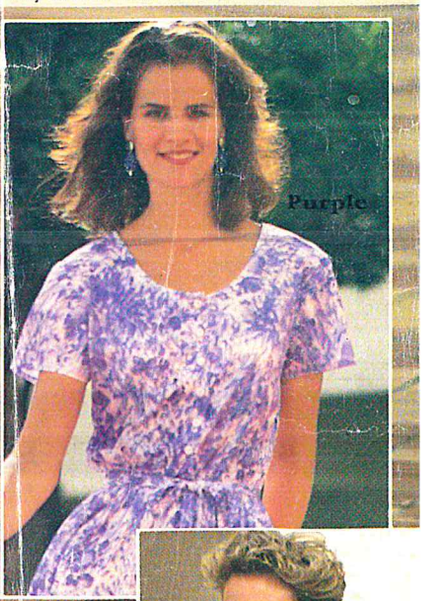
7PJ-G1E		WHAT SIZE?	HOW MANY?
A	Blue		
B	Black		
C	Coral		
D	Mint		
E	Purple		

Card #

Name (PLEASE PRINT)

Street Apt. #

City & State Zip

Now at outlet prices! A shopper's delight! Made of oh so soft and oh so cool, no-iron polyester, they're a breeze to care for — ***Just wash & go!***

Five Fresh New Colors, each styled with bright white buttons that dot the front and add a pretty fashion touch. Modest sleeves are cool and oh-so-flattering. The gentle s-t-r-e-t-c-h waist sweeps into a full skirt and gets tied up in a pretty belt to bow or knot!